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WVOC 2014

HOT STUFF

News from WVOC 2014



INNOVATION FLOWS THROUGH WVOC

Apple's new iOS 7 is a game-changer for developers and users alike. The new operating system is designed to be more intuitive and easier to use than ever before. It features a new home screen with a grid of app icons, a new multitasking interface, and a new notification system. The new iOS 7 is a testament to Apple's commitment to innovation and user experience.

THE COST OF SETTING UP A HOME OFFICE

When it comes to setting up a home office, there are many factors to consider. From the cost of the equipment to the cost of the space, it can be a significant investment. However, the benefits of having a dedicated workspace at home can be well worth the cost. A home office can provide a quiet place to work, a place to store your files, and a place to be productive.

MAC GEMS

There are many great Mac apps out there, but some are better than others. In this section, we'll take a look at some of the best Mac apps available. These apps range from productivity tools to creative software, and they all have one thing in common: they're great. If you're looking for a new Mac app, be sure to check out these gems.

WVOC 2014

THE COST OF SETTING UP A HOME OFFICE

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WHAT DO YOU NEED TO BECOME PRODUCTIVE AT HOME?

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ADAM TURNER investigates.

APPLICATIONS

MAC GEMS

NEW SOFTWARE FROM THE MAC APP STORE

BACKSET PRODUCTIONS

Backset Productions is a new software company that has developed a number of great Mac apps. Their apps are designed to be easy to use and effective. If you're looking for a new Mac app, be sure to check out Backset Productions.

REAL TIME PRODUCTIONS

Real Time Productions is a new software company that has developed a number of great Mac apps. Their apps are designed to be easy to use and effective. If you're looking for a new Mac app, be sure to check out Real Time Productions.

DAVE LIT'S EDUCATION

Dave Lit's Education is a new software company that has developed a number of great Mac apps. Their apps are designed to be easy to use and effective. If you're looking for a new Mac app, be sure to check out Dave Lit's Education.

PRODUCTS

GADGET GUIDE

Cygnus ChargeUp Sport

The Cygnus ChargeUp Sport is a portable power bank that can charge your smartphone or tablet. It's a great way to keep your device charged on the go.

Acron Dock-It

The Acron Dock-It is a docking station that can hold your smartphone or tablet. It's a great way to keep your device in one place and easy to access.

BenQ BL2400PT 30in monitor

The BenQ BL2400PT is a 30-inch monitor that is perfect for your home office. It has a large screen and a great picture quality.

Groovemade Walnut MacBook Back

The Groovemade Walnut MacBook Back is a protective case for your MacBook. It's made of walnut wood and is a great way to protect your laptop.

Features

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THE COST OF SETTING UP A HOME OFFICE

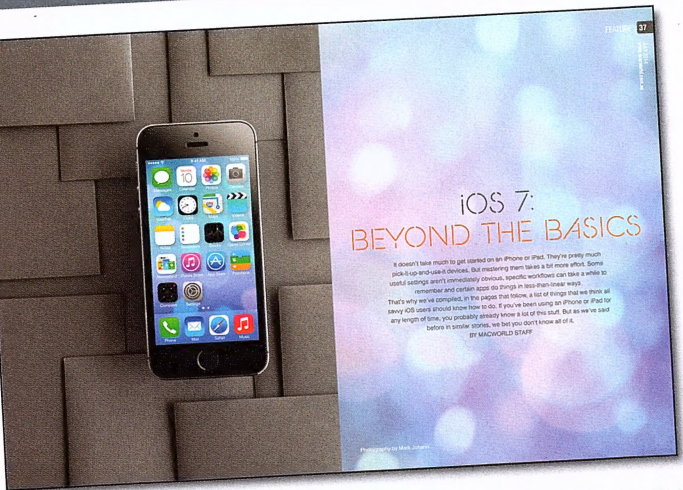
There's more to setting up a home office than simply slapping your MacBook down on the dining room table. So, what do you need to become productive at home? And how much will it cost? ADAM TURNER investigates.

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iOS 7: BEYOND THE BASICS

It doesn't take much to get started on an iPhone or iPad: They're pretty much pick-it-up-and-use-it devices. But mastering them takes a bit more effort. That's why we've compiled a list of things that we think all savvy iOS users should know how to do.





IOS 7: BEYOND THE BASICS

It doesn't take much to get started on an iPhone or iPad. They're pretty much plug-and-play devices, and understanding them takes a lot more effort. Some of the most useful features are hidden away, and it's a shame to have to learn them the hard way. This guide will show you some of the more advanced features of iOS 7, and how to use them to get the most out of your iPhone or iPad.

Macworld Staff

APP GUIDE

Cool updates for the iPad, iPhone & iPod touch

HEALTH & FITNESS

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Life after the office? Kick your butt with some personal fitness and drama. Life after the office? Kick your butt with some personal fitness and drama. Life after the office? Kick your butt with some personal fitness and drama.

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PRODUCTIVITY

PEACE & FREE (in-app purchases)

Managing your time and tasks has never been easier. Managing your time and tasks has never been easier. Managing your time and tasks has never been easier.

GROUP TEST

Wireless headphones

Looking for cordless audio? You're in the right place. We've rounded up the best wireless headphones for your iPhone, iPad, and more.

Beats Dr. Dre Wireless

These headphones are a true classic. They're comfortable, they sound great, and they're easy to use. They're comfortable, they sound great, and they're easy to use.

Bose AC20

These headphones are a true classic. They're comfortable, they sound great, and they're easy to use. They're comfortable, they sound great, and they're easy to use.

Sony MDR-10RB

These headphones are a true classic. They're comfortable, they sound great, and they're easy to use. They're comfortable, they sound great, and they're easy to use.

Kogan Pro Urban DJ Studio Bluetooth 2.1

These headphones are a true classic. They're comfortable, they sound great, and they're easy to use. They're comfortable, they sound great, and they're easy to use.

REVIEWS

Fetch TV

A personal video recorder for the gadget age. Fetch TV lets you stream TV shows to your iPhone, iPad, and more.

Canon EOS 1200D

A camera with top-of-the-line features and a value of a quality.

Canon's EOS 1200D is a great camera for anyone looking for a quality camera at a reasonable price. It has a 18MP sensor, a 1080p video recording capability, and a variety of other features that make it a great choice for anyone looking for a quality camera at a reasonable price.



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Apple loves developers. Apple loves you.

Is this the beginning of Tim Cook's Apple? That is the question that some pundits ended up with in the wake of the company's WWDC event in June.

It seems that many on the periphery of the Apple space enjoy proclaiming the death of Apple, always referring to Steve Jobs' ghost hanging over those who walk the halls of Cupertino. 'Steve Jobs wouldn't have allowed this', 'this wouldn't have launched if Jobs was alive', we often hear those naysayers claim. The WWDC keynote that Apple produced may have put some of these to bed.

This is now Tim Cook's Apple. It has been for a while now, but his influences are starting to be very apparent. Steve Jobs was, from what I have read, certain about what the public needed and wanted, even if they didn't know it yet. Accordingly, Apple under Jobs produced some of the best products in history.

Cook, on the other hand, is looking wider; he is seeking input and, as shown in June, acting on it. He even mentioned it, telling the gathered developers that he read their emails. The developers responded with gratitude.

Cook is looking to give back. He wants to offer the features that developers have craved for so long. iOS and OS X would be merely a fraction of what they are today without these developers, who make the apps that we all use day to day.

From third-party keyboards and the addition of TestFlight on the App Store to the new programming language Swift, Apple is putting a priority on those who make Apple an appealing product.

And Apple is looking to the public. The addition of Control Center in iOS 7 was for the user; Continuity in iOS 8 and OS X Yosemite is about answering the pains that many Apple device users face multiple times a day; Family Sharing is a saviour for families with large amounts of media; and iCloud Drive brings a file system to iOS. Not to mention the possibilities of HealthKit and HomeKit.

WWDC 2014 was one for the ages, and Apple put the true heroes on centre stage.

STAFF PICKS

Favourite item from WWDC 2014?



JONATHAN STEWART

SPOTLIGHT

I really like the update to

Spotlight in OS X Yosemite. Locating documents, applications and searching the internet will be a cleaner experience.



MADELEINE SWAIN

FAMILY SHARING

Anybody that

knows me will already know I'm going to plump for the Family Sharing features of iOS 8! A no-brainer in our house.



TYNAN MCCARTHY

CONTINUITY

I'm excited to be able to make and

receive phone calls and send messages on my Mac.



MONIQUE BLAIR

iCLOUD DRIVE

It's a Dropbox-like service that syncs

documents across Macs, iOS devices and Windows, offering an iCloud storage folder directly within Finder. Great idea!

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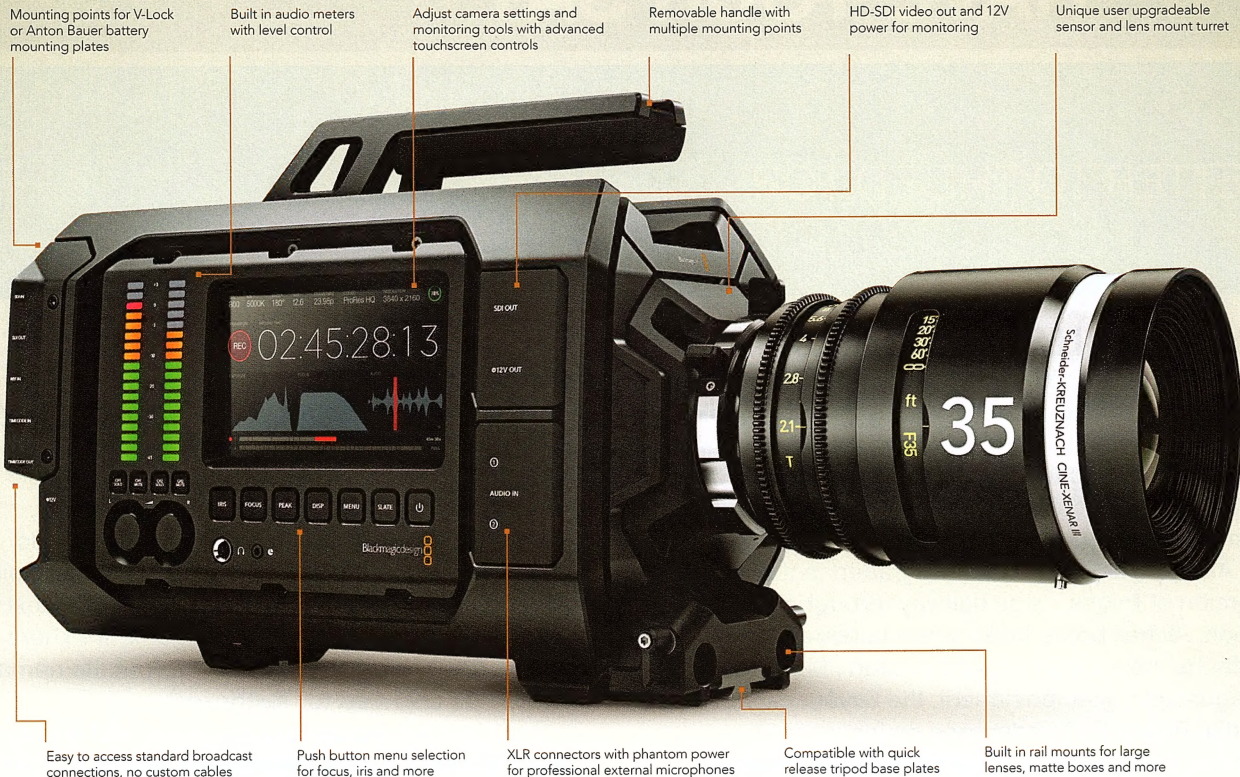
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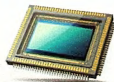
ULTRA HD 12G SDI

Blackmagicdesign



Introducing Blackmagic URSA, the world's first user upgradeable 4K digital film camera!

Blackmagic URSA is the world's first high end digital film camera designed to revolutionize workflow on set. Built to handle the ergonomics of large film crews as well as single person use, URSA has everything built in, including a massive 10 inch fold out on set monitor, large user upgradeable Super 35 global shutter 4K image sensor, 12G-SDI and internal dual RAW and ProRes recorders.



Super 35 Size Sensor

URSA is a true professional digital film camera with a 4K sensor, global shutter and an incredible 12 stops of dynamic range. The wide dynamic range blows away regular video cameras or even high end broadcast cameras, so you get dramatically better images that look like true digital film. The extra large Super 35 size allows for creative shallow depth of field shooting plus RAW and ProRes means you get incredible quality!



Dual Recorders

Blackmagic URSA features dual recorders so you never need to stop recording to change media. That's critical if you are shooting an historical event, important interview or where you just cannot stop shooting! Simply load an empty CFast card into the second recorder and when the current card is full, the recording will continue onto the second card, allowing you to change out the full card and keep shooting!



User Upgradeable Sensor

Blackmagic URSA features a modular camera turret that can be removed by unscrewing 4 simple bolts! The camera turret includes the sensor, lens mount and lens control connections and can be upgraded in the future when new types of sensors are developed. This means your next camera will be a fraction of the cost of buying a whole new camera! Choose professional PL mount, popular EF mount and more!



Built in On Set Monitoring!

Say goodbye to bulky on set monitors because you get a massive fold out 10 inch screen built into Blackmagic URSA, making it the world's biggest viewfinder! The screen is super bright and features an ultra wide viewing angle. URSA also includes two extra 5" touch screens on both sides of the camera showing settings such as format, frame rate, shutter angle plus scopes for checking levels, audio and focus!



Blackmagic URSA EF
\$7,235



Blackmagic URSA PL
\$7,839



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HAVE YOUR SAY

LETTER TO THE EDITOR

THE SHAMBLES THAT IS PAGES 5.2

I have owned Apple computers since about 1982 (Apple IIc) and at present own both a MacBook Pro and an iMac that is less than a year old (as well as two iPhones, two iPods and three iPads). Since I have retired, I have written many books on family history all using Pages Layout.

All was going well until I upgraded to the new version of Pages. I was halfway through my last book. All hell broke loose when I opened the file with the 'new and improved version'. Much to my disgust and disappointment, the Layout capabilities within Pages had undergone major revision – Layout was gutted of some of its major creativity functions. Gone are the linked text boxes; gone too the possibility of rearranging the individual page thumbnails. The ability to copy and paste one thumbnail of a formatted page and create two formatted pages can be added to the list.

Previously I could divide a large text box into two with one part at the end of one page, then the second on the top of the next page. In having these linked, I could easily adjust size – the text would spill or shrink from one text box to the other. That too disappeared! No longer could I use one page loaded with images, that I moved (using the thumbnail), copying and pasting/inserting the relevant images in the text. (Repositioning an image down the through pages would sometimes cause the Pages app to freeze. Later in the book, Pages refused to allow me to type text in the lower part of pages. I had reached the limits of Pages).

For one book I used the word processor version of Pages, so I could use hyperlinks/bookmarks in a PDF version to share with students. Now gone too are the active hyperlinks (bookmarks) in PDFs in the Table of Contents that took the reader to the relevant chapter page!

Worse was to come. I opened one of my 'old' books (files) with the new Pages and all links between pages (and text boxes) were destroyed, causing me untold hours of removing boxes and

copying and pasting. And there were problems/changes with missing fonts as well.

Sure you can still use Layout; however, "a page layout document is essentially a blank canvas to which you add text boxes and other elements and arrange them however you want," says Pages Help. Now text boxes are reduced to just 'arrangement'. There is little creative anymore about Layout. Its name should be changed to 'Textboxes'.

I am lost for words to understand and explain why informed, caring developers would jettison the simple, easy to use, grouped functions, allocated to a range of 'Inspectors' and replace them with the clunky current 'Format' and 'Document' approach. Gone are some of the border options; there is an indecisive approach to using colours where you can use the 'old' and the 'new'; and using the appealing (but, in reality, sporadic) *Arrange > Move with Text* turns out to be a nightmare; more hours spent on repositioning images. Another retrograde step. I could go on.

Of course I could always revert to the 'old' version of Pages... OK, until I encountered: "You need a newer version of Pages to open this document." The problems created with the new version of Pages are profound and most annoying. And please, let's not mention the new iTunes.

After all these years devoted to and defending Apple, I find I have increasing unease about the shoddy offerings currently being offered by Apple. As a teacher of the iPad to seniors (over 250 students), I have encountered other, similar problems with new versions of iOS – e.g. who took the digital photo frame? Is Apple losing its grip, and its reputation for quality? To me, Apple is showing that it cares little about my computing needs and those of other users, when Apple creates retrograde change. It's never progress.

Colin McGuire





NEEDS CONVINCING

In reference to the *Macworld Australia* online article, 'Tethered syncing returns with iTunes 11.2 and OS X 10.9.3' (www.macworld.com.au/?p=125084), so Apple has started to listen.

I guess that's a step in the right direction, but this is syncing for calendars and contacts... What about photos, music etc? Are they all still synced via iCloud?

I'm unconvinced. I don't want to sync any data via iCloud. I think I'll stay with Mountain Lion.

Graeme

BACK IT UP TWICE

Thanks for the reviews of the Microsoft Office for iPad apps. I've been using them since release and the reviews were helpful.

You are absolutely correct that Dropbox isn't supported. I've circumvented that by placing the OneDrive folder in my Dropbox folder. Works a treat. Yes, I'm doubling up, but looked at another way I'm getting an extra backup, and I get the best of both worlds – easy access within Office, but also easy access without.

Chris Pearce

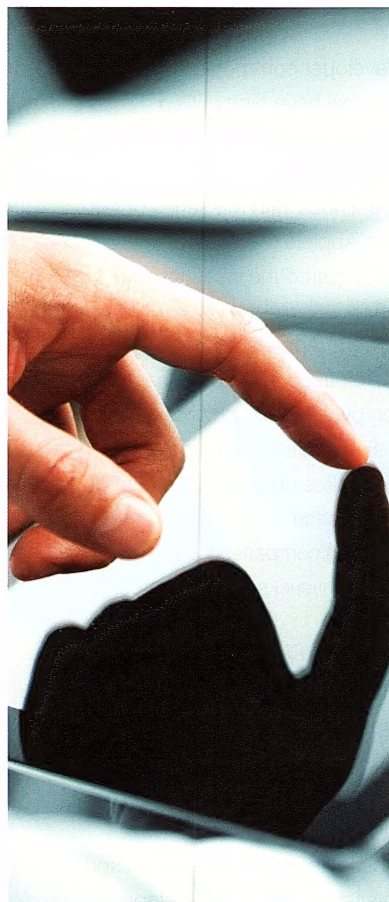
DANGEROUS JAIL BREAK

In regards to the online article, 'Australian iOS devices hacked, ransoms demanded', I don't think setting a password makes everything go off beautifully. Some hackers can easily gain access to Wi-Fi connected iPhones when they're jailbroken, if they try the default root password. I think 80 percent of jailbroken iPhone owners know nothing about the root password configuration after their jailbreak!

Some developers even install spy apps like iKeyMonitor to steal the unlock passcode when the device is jailbroken. We are not living in a safe world protected by passwords.

But it is, at least, safer than no password. In normal cases a password is a protective and useful shield, even if it is weak to some extent.

Sharonto



■ Letters should be emailed to editor@macworld.com.au with a subject header of 'Letter to the Editor' or by post to: Macworld Australia Mailbox, 142 Dorcas Street, South Melbourne, Victoria, 3205. Please include your full name and address, including state or territory.

■ Comments on stories or Forum posts on www.macworld.com.au are also eligible for the prize.

■ We reserve the right to edit letters and probably will.

■ Letters of fewer than 200 words are given preference.



This month's prize to the *Macworld Australia* reader who submits what we think is the most interesting letter is a pair of Plantronics BackBeat FIT wireless stereo headphones, worth \$149, from Anyware.

Whatever your workout, the flexible, sweat-proof Plantronics BackBeat FIT wireless Bluetooth v3.0 stereo headphones keep pace with you. Comfortable, stable and built for action, the BackBeat FIT feature a flexible design that fits comfortably and stays put for all levels of exercise. The easily accessible on-ear controls let you keep moving while you control your music or answer calls.

www.anyware.com.au

TERMS AND CONDITIONS. Letter of the month 1. Instructions on how to enter form part of these conditions of entry. 2. To enter send tips or queries to editor@macworld.com.au with a subject header of "Letter to the Editor". Entries will be judged by the editorial staff of *Macworld Australia*. The judges' decision in relation to any aspect of the competition is final and binding on every person who enters. No correspondence will be entered into. Chance plays no part in determining the winner(s). Each entry will be individually judged based on its degree of interest. 4. Employees, their immediate families and agencies associated with this competition are not permitted to enter. 5. The Promoter accepts no responsibility for late or misdirected entries. 6. The best entry/entries as determined by the judges will win the prize(s). 7. The Promoter is neither responsible nor liable for any change in the value of the prize occurring between the publish date and the date the prize(s) is claimed. 8. The prize(s) is not transferable and will not be exchanged for cash. 9. The winner(s) will be notified by email. 10. All entries become the property of the Promoter. 11. The collection, use and disclosure of personal information provided in connection with this competition is governed by the Privacy Notice. 12. The Promoter is Niche Media Pty Ltd of 142 Dorcas Street, South Melbourne, Victoria 3205 Ph 03 9948 4900, (ABN 13 064 613 529).



HOT STUFF

News from WWDC 2014

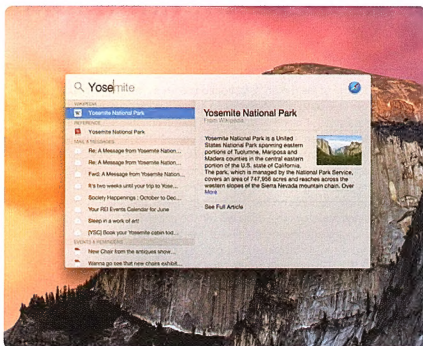


INNOVATION FLOWS THROUGH WWDC

APPLE UNVEILS iOS 8, OS X YOSEMITE AND NEW DEVELOPER TOOLS.

Apple took to the Moscone West stage in San Francisco for the Worldwide Developers Conference in June to unveil OS X Yosemite, iOS 8 and a range of new developer tools including HealthKit and HomeKit.

Tim Cook kicked off WWDC, the 25th anniversary, with a thank you for the developers that have contributed to iOS and OS X ecosystems since its conception in 1990, where 1300 developers gathered.



"We're here today and all week to celebrate the developer community and all of the amazing apps that they've created... From all of Apple, thank you very much," he began.

"The developer community is incredibly vibrant. We now have nine million registered developers. That's up almost 50 percent over last year."

Cook continued with the series of numbers on Apple's Mac operating system and even compared the statistics with Windows 8.

According to Apple's CEO, OS X Mavericks, released in October, has been installed on over 40 million Macs – the most of a single release ever in Apple's history and makes up over 50 percent of the OS X user base.

Windows 8 in comparison, which shipped a year before Mavericks, is at 14 percent.

OS X YOSEMITE

After his little stab at Windows, Cook handed the stage over to senior vice president of Software Engineering at Apple, Craig Federighi, who announced OS X 10.10 or OS X Yosemite.

OS X Yosemite will be available in spring (though available in beta to developers

now) and brings a new design, beautiful new Notification Center and widgets, updated Spotlight, new iCloud Drive, Mail with great new features, a faster and more elegant than ever Safari and Continuity.

"Yosemite is a fantastic new release, with a new interface, big enhancements to our most popular apps, and something all new we call 'Continuity'," Federighi said.

Yosemite is a dramatic new look, with new typography, refined toolbars and a translucent design that adorns the Dock and Finder windows.

Find out more on Page 12.

iOS 8

Tim Cook returned to the stage to announce iOS 8. As usual, Cook had a few numbers to share with the audience and took the opportunity to compare iOS with Android.



"We've now sold well over 800 million iOS devices. Each category has set its own sales records," Cook said.

He also highlighted the 130 million new iOS customers that had signed up in the previous 12 months.

"Many of these customers were switchers from Android. They bought an Android phone... by mistake... and then had sought a better experience... and a better life. And decided to check out iPhone and iOS."

As with the unveiling of OS X Yosemite, Cook handed the stage over to Craig Federighi.

But what did Apple reveal? The next-generation mobile operating system will offer a range of new features for iPhone, iPad and iPod users. There will be new photo features, big changes in Messages, predictive typing, the first major update to the iOS keyboard, iCloud and iTunes improvements, support for health apps and home automation, an improved version of Spotlight, and much, much more.

And then there are Apple's Continuity features, which will mate the Mac and iOS devices in a whole bunch of interesting ways. Find out more on Page 15.

DEVELOPERS

Apple has unveiled a number of new tools for iOS developers from the App Store to an updated SDK.



App Store. To the App Store Apple has added a top trending search to aid those looking for new and exciting apps, a continuous scrolling list of apps in the search pane and a new Editors' Choice logo so users can find the best apps.

Apple has also allowed developers to bundle apps, making it easier for users to buy a series of apps in the one purchase. Developers can make short preview videos of their apps to explain their apps to potential purchasers and the new TestFlight feature means developers can invite users to beta test their apps.

SDK. Apple updated the developer SDK, bringing 4000 new developer APIs. A new opportunity for developers is Extensibility, which will allow apps to interact with each other. Apps will remain in the sandbox, but will offer a sharing sheet from which other apps will be able to request interaction.

Third party apps can also create widgets for the Notification Center and developers can create system-wide keyboards. If a user has a specific keyboard they would like to use, they can install it on iOS 8 and it will run across the device.

Touch ID. Touch ID is now available to developers as well. The fingerprint scanner's data will remain protected, but the API opens the door to developers to use Touch ID in their apps.

HealthKit. The rumours of Apple's new health-focused app were spot on. As part of the new suite of tools for developers dubbed HealthKit, Apple announced 'Health', a new application that it believes will offer a comprehensive look at the health of a user. With Health, you can monitor all of the metrics you're most interested in. You can use third-party apps too.

According to Apple, when a patient takes a blood pressure reading, the app can check whether that reading is within that person's parameters and threshold, notify a doctor of any concerns, and the doctor can contact that patient.

HomeKit. Home automation is coming to iOS with the addition of the HomeKit API. Apple has collaborated with a number of companies in the home automation space and arrived at a common network protocol with secure pairing that will enable users to control their lights, locks, webcams, garage doors, thermostats and more.

HomeKit will allow users to talk to Siri. When a user says "Get ready for bed!" it will do everything it needs to: lock doors, dim lights, turn the thermostat down, close the garage shutter door etc.

Graphics. Apple is also looking into high-end 3D gaming graphics with its new Metal API and casual gaming with SpriteKit.

Swift. Xcode is the toolset used to develop apps for iOS and OS X and central to Xcode is the language used to code, Objective-C. Apple has decided to update Xcode with a new, faster language it has called Swift. For those who want to get a grip on the new language, Apple has released a guide in iBooks.





OS X Yosemite

OS X YOSEMITE FAQ

BIG CHANGES COMING TO YOUR MAC THIS SPRING

This year's update to OS X has been officially previewed, and we know its California place name: Yosemite. But while developers have access to an early version of the new OS now, regular users will have to wait until spring to use it (unless they sign up for, and get into, the public beta program). Here are answers to some of the most common questions.

THE INTERFACE

What's this I hear about a revamped user interface?

You've heard correctly. Taking a cue from iOS 7, Yosemite now features transparency not only on the menu bar, but applied to windows and other small interface features, as well.



You'll also find that Apple has dispensed with the 3D design elements of old in lieu of flatter, more colourful surfaces. Toolbars have also been simplified. For example, in Safari, the Favorites bar no longer appears by default; instead, you find Favorites when you click in a window's smart-search field. Yosemite also uses a new System font, Helvetica Neue.

The Dock looks strangely new-but-familiar. What's up with that?

Back in OS X 10.4, the Dock was two-dimensional: a translucent background that separated app icons from the desktop. Starting in OS X 10.5, however, Apple changed the Dock's bottom position to render in 3D (unless you performed a Terminal tweak). With Yosemite's new flat UI, the Dock is back to being 2D again.

We like it a lot from what we've seen so far, and it otherwise behaves just like the Dock we're used to. You will be able to resize and reposition it, hide it and so on.

I've heard Apple changed the 'spotlight' buttons at the upper left of windows. Are they vertical again?

No, still horizontal, but in many windows they're now integrated into the toolbar, rather than above it, thus saving some screen real estate. They also have the same flatter appearance as the rest of the operating system. If you're a long-time Mac user, the experience will be a bit odd at first, but it should be a nice change – especially given the widescreen aspect ratio of all of Apple's current displays.

In addition, Apple has tweaked the behaviour of the green button. Previously,

it's always been a zoom toggle – though exactly how it zoomed varied widely. In Yosemite, the green button is now a full-screen toggle: individual windows zoom to the width of the screen when pressed, while the main window of an app enters full-screen mode. Many of us will miss the green button's zoom control, but given Apple's current emphasis on full-screen mode, this change makes a lot of sense and reduces clutter in the toolbar.

SYSTEM SERVICES

What's changed in Spotlight?

Apple has enabled Spotlight to tap into more information sources and expanded what you'll see in results lists. In addition to the files, apps, contacts, Messages and other data Spotlight could already find, those sources now include Wikipedia, Bing, Maps, news, movie listings and the iTunes, Mac App and iBooks Stores.

The Spotlight key command remains Command-Spacebar; if you conduct a normal Finder search by pressing Command-F, online sources won't be searched, just as they weren't in previous versions of the Mac OS.

Spotlight is also now more interactive. Not only will you be able to read a document within a Spotlight preview, but you'll be able to do things like send an email message, make a phone call or get directions right from the search interface.

What's changed in Notification Center?

Third-party widgets are the big news in Notification Center. They allow developers to create little code snippets that display

things like the current weather, sports scores, bidding in online auctions and more. In addition, Notification Center takes a page from iOS and brings over the Today view, which provides a summary of your day's events, reminders and birthdays, along with calendar events for tomorrow.

iCLOUD AND CONNECTIVITY

How is OS X more closely connected to iOS devices? Why would I want that?

There are a couple ways in which your Mac and iOS devices will soon work together under Yosemite and iOS 8. These new capabilities centre on iCloud Drive and a cluster of features Apple is calling Continuity. The first offers you a big Dropbox-like storage locker for all your app documents and projects; the second provides an integrated framework for you to access a variety of services seamlessly as you move between Macs and your iOS devices. As implemented in OS X Yosemite, those services fall into five distinct categories: Phone, SMS, Handoff, Instant Hotspot and AirDrop.

What does the Phone part of Continuity do?

Think of your Mac as a big speakerphone and dialler for your phone. If your phone is within Bluetooth range of your Mac, you'll see caller ID information on your Mac's screen whenever your phone receives a call. You'll be able to accept or decline the call right from your computer and, if you answer, to talk and listen through your Mac.

You'll also be able to initiate calls from your Mac by clicking on a phone number in Contacts, on a webpage, or in an email or text message.

What about SMS support?

This is pretty cool. If you have an iPhone and upgrade to iOS 8, you'll be able to push SMS messages – those 'green bubble' messages from buddies who don't use an iPhone to text – to your Mac or other iOS devices, so that you can write and reply to them on any device you choose. You'll even be able to initiate SMS messages on the Mac.

And Handoff? What's that?

Most of us own more than one Apple device these days. While iCloud already helps us keep some information in sync between those devices, the process of switching back and forth between them is still often rough. Handoff aims to help smooth that out. If you start writing an email on your iPhone, you'll be able to pick up your composition on your Mac from wherever you left off. In the middle of reading an interesting article on your iPad when you need to head out the door? You'll be able to open up your iPhone and keep reading, right from the same scroll position.

Third-party developers can also take advantage of Handoff. Apple is providing a framework for developers who want to have their apps talk to each other on iOS and the Mac. Obviously we'll have to wait to see what kind of clever uses for Handoff those developers come up with.

OK, and Instant Hotspot?

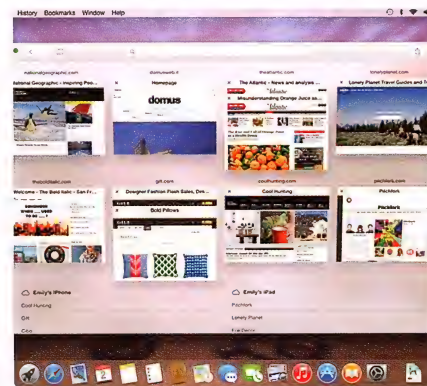
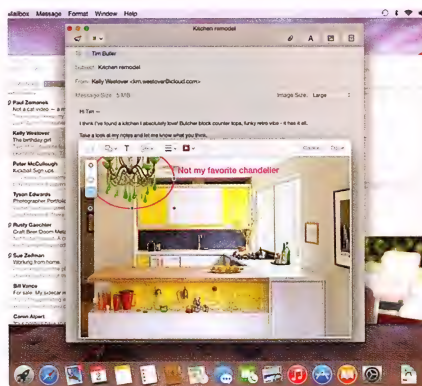
Currently, if your mobile carrier supports your iPhone's hotspot feature, you can configure your iPhone to create an ad hoc wireless connection to your Mac, letting it use your phone's data plan for internet access. Under Yosemite, however, whenever your iPhone is within Bluetooth range of your Mac, the phone automatically appears (along with its signal strength and battery level) in OS X's systemwide Wi-Fi menu. If you choose your phone from this menu, it automatically sets up a secure Wi-Fi hotspot and your Mac connects to it – no other action required. And your Mac automatically disconnects when it's not actively accessing the network to preserve the phone's battery life.

What about AirDrop? Don't I already have that on my Mac?

You do, but now it's even better. AirDrop now works between iOS devices and Macs, meaning you'll be able to exchange files on an ad hoc basis between the two, without the need for an internet connection or even being on the same local network. Need to get a photo to your Mac from your iPhone? Fire up AirDrop. Want to send that PDF from your Mac to your iPad? Same thing. And you'll also be able to limit your sharing so that only your iCloud contacts can see your share requests.

So tell me about iCloud Drive. Is it really like a Dropbox folder?

Sort of. Starting with OS X Yosemite and iOS 8, you'll have access to an iCloud



folder on both. That folder syncs with your other Macs and iOS devices (presumably running either Yosemite or iOS 8). If you drag and drop files into it, they will then appear on your other devices.

APPS

What's new in Safari?

Following in the footsteps of the Finder redesign, Safari windows have been simplified. By default you will see just a couple of navigation controls, a button for showing or hiding the sidebar, the smart-search field, and Share and Tab View buttons. Also by default, when you click in the smart-search field, your favourites – represented as icons – will appear; just click on one of these icons and the associated site opens. The smart-search field doesn't show an entire URL by default, just the address of the server (say, `macworld.com.au`) you're connected to. And the title of the page isn't shown at all, unless you have multiple tabs open.

Browser tabs have changed as well. Although you'll still be able to see multiple tabs in a tab bar, when you click the new Tab View button in the top right corner of the toolbar, you'll see thumbnail previews of all your tabs in the main window. If you have multiple pages from a single site, they'll be stacked within this view. Below these thumbnails are iCloud Tabs – the ones that are open on other devices

associated with your Apple ID. Click a preview or one of these iCloud Tab links and the page will open in Safari.

Yosemite's Safari additionally offers an advanced Private Browsing mode (in which your browsing actions aren't tracked or saved). With today's Safari, when you switch on Private Browsing it applies to all open Safari windows. With the next version of Safari, you'll be able to create a window and devote it – and all the tabs within it – to private browsing. As with Safari on iOS devices, the colour of the browser window will change to help you identify private windows. You'll be able to maintain separate windows that aren't configured to be private.

What's new in Mail?

The two major new features are Markup and Mail Drop. If you've had occasion to annotate images in Preview, you'll get the gist of the way Markup works. When you add an image to an email message, you'll be able to invoke annotation tools to mark it up. These tools are remarkably similar to those you find in Preview: you'll be able to add shapes, arrows and text and to fill out and sign PDF documents either by drawing in your signature or using one you've captured with a webcam.

Mail Drop is a method for sending really huge attachments (which can't make it through some email gateways). The service ties into your iCloud account and is confined to the Mail app. It works this

way: if an attachment is too large, it'll be uploaded to your iCloud account and a link to the file will be sent to the recipient. If the recipient is also using Mail under Yosemite, they'll see that attachment just as they would any other. Otherwise, they'll receive a link to the attachment instead. When they click that link, the attachment will download. Although attachments sent via Mail Drop can be very large, they still can't exceed 5GB per message.

What's new in Messages?

There are a couple of new exciting features coming to Messages in OS X. First is the app's new tap-to-talk feature, which will let you send quick voice memos to friends and family members. Like messages in apps such as Snapchat, those snippets will be temporary and disappear within a few minutes of being read unless you choose to save them. You'll also be able to send a quick video or multiple images.

Group texting is also getting a huge overhaul. You'll be able to name group conversations (for easier reference), add and subtract users to the conversation on the fly, and leave the conversation (or hit the Do Not Disturb button) if you're getting flooded with texts. Messages also makes browsing images and video in a thread much simpler; tapping the Details button will let you see any attachments you've saved in that conversation over time.





iOS 8 FAQ

WHAT WE KNOW SO FAR

Given iOS 7's major visual overhaul last year, it wouldn't have been surprising if Apple had decided to take a step back and focus on small under-the-hood improvements in iOS 8. But that didn't happen: iOS 8 looks like it'll be every bit the game-changer that its predecessor was.

But this time, the focus is on system features and app improvements more than visual tweaks. In particular, the impending update will see a seismic foundational shift in the way apps communicate with each other, opening the door to a richer, more colourful experience for all Apple's mobile users.

Make no mistake: there's a lot of new stuff in iOS 8. Here's what we know about it so far.

THE BASICS

When is iOS 8 coming out?

Apple says this spring.

What devices will it run on?

Essentially everything from the iPhone 4s onward: The iPhone 4 won't run iOS 8, but the iPad 2 – and its technological twin, the iPad mini without a Retina display – will. iOS 8 will also run on the fifth-generation iPod touch.

SYSTEM SERVICES

What's this Continuity?

Refer to OS X Yosemite FAQ. Page 13.

Wait, wait – iCloud Drive? Does iOS 8 finally get a file system?

Another feature that will span multiple devices, iCloud Drive is a central storage locker for your documents and projects

from various apps on both iOS and OS X.

But to answer your question, yes, it does mean that iOS 8 will have access to files and not just from within the apps that created them. The Document Picker – as Apple has dubbed the new interface – looks a lot like a traditional Open dialogue box on the Mac, right down to the search field and (from what we've seen) the ability to toggle between icon and list views.

While files will be grouped by the application that created them in by default, Apple says you'll also be able to create your own folders and organise your documents any way that you see fit. In OS X and Windows (yep, we said Windows), you'll be able to simply drag files into the iCloud folder to sync them between your devices à la Dropbox.

What's this QuickType thing?

Auto-correct has been part of the iPhone since the beginning, in part because our big fat fingers kept mistyping messages from the phone's on-screen keyboard. But now auto-correct is getting a much-needed retooling. QuickType is iOS 8's auto-correct successor, adding a word-selector atop your iOS keyboard for quicker conversations.



When you type in iOS 8, QuickType will attempt to predict the words you want to use next, offering suggestions that aren't defined just by the letters you're typing, but also by the conversational context. The service will not only recognise the difference between chatting in Messages and writing in Mail, it will provide different suggestions depending on who you're communicating with as well.

QuickType will learn your habits the more you type, but will keep that data confidential and stored locally on your device, so you won't have to worry about your keystrokes being accidentally (or maliciously) revealed to the world.

I heard that interactive notifications made the move to iOS. True?

Yup! OS X Mavericks brought the notion of Quick Reply and interactive buttons to notifications on the desktop; now iOS 8 is bringing that idea to the mobile realm.

You'll be able to pull down banner alerts to quickly reply to texts or email, and accept calendar notifications or snooze reminders – without having to open the requisite app. This should even work with third-party apps if they've enabled the feature.

What's that row of people I saw in the demo of the new multitasking screen?

When you double-press the Home button (or use a gesture on the iPad) to open the multitasking interface, a new row of icons will appear atop your recently-used apps: avatars of people you've recently communicated with.

If you scroll to the right, you'll get your Favorites list. From there, if you tap one of those photos, you'll get quick access to buttons to call, message or FaceTime that person.



What's this about a new and improved Spotlight?

Though OS X Yosemite is getting the biggest improvements in its search tools, iOS 8 is getting its fair share, too. Now, when you search in Spotlight, you'll be able to access inline Wikipedia information, news, Maps data for nearby places, results from Apple's iTunes, iBooks and App Stores, suggested websites for your query, and movie showtimes – all in addition to the contacts, email, messages, apps and music that already appear in search results. The same engine will be built into the new Safari's toolbar, too, so you can choose to do searches there instead.

Are there any improvements to Siri?

Apple's virtual assistant got only a short nod in the keynote, but there are a few cool new improvements coming in iOS 8. For one thing, Siri promises to become even more responsive. When your phone's plugged in, you'll be able to get Siri's attention without even pressing the Home button: Just yell, "Hey, Siri," followed by your command, and the phone will come to attention. If you're thinking this will eat up battery life, don't worry: the device needs to be plugged in.

Even if your device isn't charging, though, you'll still be able to access some of Siri's other tricks. It will now recognise words as you say them, rather than waiting until you've completed your sentence;

you'll be able to use Shazam technology to have Siri listen to and identify music (and buy that song from iTunes if you're so inclined); and, if you're a foreign language speaker, Siri will soon be available in 22 additional languages.

Is AirPlay any better?

Those who use the Apple TV as a presentation device (or a good way to share slideshows at your friend's house) will be excited about iOS 8's peer-to-peer AirPlay discovery/playback service, which will let you AirPlay video and mirror your device's display to an Apple TV without connecting to a Wi-Fi network. It's a neat way to share projects, photos, or video without fussing with network passwords.

What's Family Sharing? Is it multi-user?

Family Sharing – due to debut with OS X Yosemite – should bring a measure of sanity to households full of Apple devices. The idea is simple: you have multiple people in your home and just as many Macs, iPhones, iPads and iPod touches. Each member of the family will be able to join the Family Sharing group (up to six people are allowed), which will be associated with a single credit card.

That done, any member of this group will be able to download almost any media bought by any other member of the group, without sharing Apple IDs or passwords.

(Apple has indicated that not all media will be eligible for sharing.)

Family Sharing will also allow families to share family photo albums, calendars and even the locations of themselves and their devices.

Alas, Family Sharing won't provide user accounts or profiles, a feature many parents have been hoping for since the first iPad. Apple still seems content with assuming that 'multiple users' means 'one iOS device per person'. But even though Family Sharing won't help us better share a single device between multiple family members, at least we won't have to buy multiple copies of an app or tune – or all share a single 'Purchasing Apple Stuff' account.

BUILT-IN APPS

I heard there were some new Photos features?

Yup! The Photos app is getting an overhaul that combines iPhoto for iOS's editing tools with a fully-functioning cloud-storage locker for your images.

For starters, any photo you take and store in the Photos app will be automatically uploaded to iCloud, where your images and video are stored at full resolution and in their original formats (JPG, PNG, Raw, you name it). All of those images will be viewable on any iOS device or on the web; starting in early 2015, you'll

be able to upload and view photos from your Mac, too. And the storage is going to be dirt-cheap. You get 5GB for free as part of your iCloud account but you can buy extra storage space up to 1TB.

Having all those images at hand may make you nervous about ever finding anything again, but luckily, Apple is adding a smart search feature and a Favourites button. The search field will initially prompt you with a collection of nearby photos, images taken at the same time last year (for nostalgia factor), and all-time favourites; but you can also search by date or time, location or album name.

There will also be new editing features for images. Download an image to your device, and you'll be able to use a bevy of iPhoto-inspired features to crop, straighten, remove red eye, adjust lighting and contrast, and more. All of those edits sync across your devices, so that the fixed image appears in your library immediately. They'll also be non-destructive: if you decide you preferred your image unfiltered, you'll be able to revert it.

What about the Camera app?

Apple didn't talk about it much on stage, but the Camera app is getting its own fair share of improvements. Focus and exposure are now two separate controls; third-party developers will have full access to those settings. In addition, two new time-based features make their debut in Camera: a self-timer and time-lapse videos. The latter lets you record a video and then automatically creates a time-lapse from the data you've recorded, while self-timer gives you more flexibility when trying to take selfies with your back camera.

What's new in Safari and Mail?

Glad you asked. Mail is getting some more gestures, for starters. You'll be able to swipe left or right on a message in your inbox to mark it read or unread, flag it for follow-up, or swipe it all the way off the screen to delete it. While you could already

mark contacts as VIPs (a feature added in iOS 6), Mail in iOS 8 will let you slap a VIP label on individual message threads. (Shouldn't that be VIT?) That way, you'll always stay on top of new replies to that thread, no matter who they come from. Exchange users will be able to set their out-of-office auto-replies from within the Mail app in iOS 8, too.

Mail in iOS 8 will get some new contextual power. While composing a message, you'll be able to swipe it down to minimise it, giving you access to other messages in your inbox in case you need to copy and paste something into your new email. And if you type something into an email that should go on your calendar, like a dinner reservation, Mail will toss up a notification that you can tap to add to your calendar.

Safari on iPad will get a cool new tab view that shows you all the tabs you have open and groups tabs from the same website into stacks. When you're browsing, a sidebar will be able to pop out on the left for your Reading List, bookmarks and Shared Links

(which work like RSS subscriptions), to further align Safari on iPad and the Mac.

What's going on with the Messages app?

Refer to OS X Yosemite FAQ. Page 13.

APPS FROM OTHER VENDORS

What are widgets?

Widgets are miniature versions of apps that will run within Notification Center's Today view. When you install an app that contains a widget, Notification Center will let you add it to the Today pane. These are very simple interfaces through which apps can provide at-a-glance information – the latest sports scores, say – within the Notification Center window. Apps will also be able to also provide links within the widget to launch the full app.

What do you mean that apps can project themselves into other apps?

You know how when you use the Photos app to email a picture, a Mail window slides in? You're still in the Photos app, yet some small portion of Mail has appeared inside



of it. App projection is sort of like that. In iOS 8, apps will have the ability to launch small, short-lived services that extend functionality – for example, sharing content to a web service, transforming data, photo editing, changing webpages in Safari and hooking up with internet storage providers.

I keep hearing about Apple's interest in health and fitness apps. Does iOS 8 have anything like that?

Rumours have swirled about Apple entering the crowded yet underwhelming wearables market. But the iOS 8 health announcements aren't intended to tie directly to one device. Rather, iOS 8 will connect many different health-related devices and apps.

iOS 8 will feature its own new app, Health, which is powered by a system called HealthKit. HealthKit is a set of tools for health and fitness apps to report your personal health information into a shared database. Connected medical devices will be able to pour data into the HealthKit database, as will apps. The Health app will be where users can get a comprehensive picture of their health, with a customisable dashboard that shows you the metrics you care about.

If Apple releases its own health-related device in the future, presumably it'll take full advantage of HealthKit, but there's no need to wait. Users can integrate data from whatever wearables and apps they're using now, and Apple doesn't have to pick a one-size-fits-all winner in a fragmented market.

What about home automation?

Like HealthKit, Apple's HomeKit isn't a gadget. It isn't even an app – not yet, anyway. HomeKit is a set of APIs for third-party connected home companies to integrate devices like smart door locks, thermostats, lights and appliances more deeply into iOS 8. That, in turn, could let you coordinate multiple devices from different companies and trigger actions with Siri. For example, telling Siri you're off to bed could prompt a series of automated actions that would check your doors, while

cutting the lights and turning down the heat. Apple is working with partners to develop a secure communication protocol that will let your iPhone talk to a wide range of devices without forcing you to use unitasker apps to control each gadget individually.

Android's got the ability to install third-party keyboards. Does iOS 8 finally add support for this?

Funny you should ask! In addition to upgrading the existing Apple keyboard with QuickType, Apple has opened up the keyboard for third-party alternatives. This allows companies who want to support different languages and alternative input methods with their keyboards to move to iOS.

What if I don't want a bunch of apps getting in my way or causing security problems?

As with most things on iOS, you'll be able to turn this stuff off in the Settings app. Apple says these new app options will be sandboxed and are designed to be very secure, but ultimately the control will be in your hands. If you want to tell an app to go away, you'll be able to do so in the Settings.

Can other apps use Touch ID?

Yes! In iOS 7, the touch sensor on the iPhone 5s could only be used to unlock the phone and approve purchases. But in iOS 8, apps can be updated to unlock themselves when the Touch ID sensor

verifies a person's identity. The apps themselves won't get any access to your fingerprint data; that remains held in the 'secure enclave' area of the iPhone's processor. But they'll get a thumbs-up message – so to speak! – when the fingerprint has been verified.

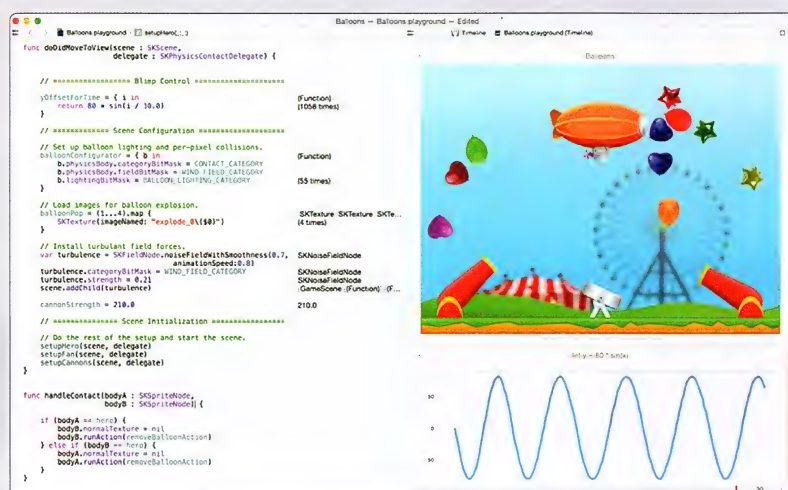
What's new for enterprise users?

Apple actually spent a decent amount of time in the WWDC keynote going over enterprise improvements – hardly surprising given the iPhone's increased presence in the workplace. For starters, all apps with sensitive data will be protected with a passcode until after the device is unlocked following a reboot. In addition, there will be several perks for Mail users, including signing and encryption for individual messages, external domain email messages distinguished by colour and Exchange automatic reply messages.

On the Calendar side, you'll be able to view your colleagues' free/busy information when scheduling meetings, mark events as private, create better custom repeating events and email meeting attendees.

If your enterprise devices are centrally managed, iOS 8 will give your IT people more advanced remote device management. It'll also make it easier for them to manage user data, filter the apps that can open documents from iCloud Drive, and send books, eBooks and PDFs to devices automatically.





THE DEVELOPERS TAKE THE STAGE AT WWDC

WHO WAS WWDC 2014 REALLY FOR? DAVE WISKUS EXPLAINS.

On the face of it, the WWDC keynote was a developer's dream: Extensions, TestFlight, third-party keyboards, a framework for building cloud-based apps, a compelling successor to Objective-C, and more. But what did this avalanche of empowerment mean to developers, and how will it impact the future of Mac and iOS apps?

DEVELOPERS IN THE SPOTLIGHT

The really interesting thing happened after the OS-upgrade show. Tim Cook paused in the middle of the Worldwide Developer Conference keynote to explain the term 'SDK.'

We may never know how many people watched the keynote video or how many of them were app developers, but it's a safe bet that Apple knows. As interesting as any piece of technology announced in June, Apple is subtly but intently acknowledging a simple truth: this stuff is pop culture now. We were shown the future of Mac OS X, the future of iOS and the future of apps. Brace yourselves, developers: the real consumer product being showcased at WWDC 2014 was us.

Viewers were treated to a series of new API and framework announcements – the largest number of APIs mentioned at a keynote, and each of them more impressive than the last. CloudKit, HealthBook, TestFlight, Swift, Extensions, widgets: It's enough to make a developer weep. But these weren't just presented as engineer candy. These were frameworks as features.

Apple knows that the tools developers use to make apps directly impact the quality of the apps. This year, the tools were showcased as if to impress not only app makers, but also the people watching at home. It's perhaps too comfortable to think of developer tools the same way we think of a mechanic's tools: functionally impressive, but esoteric.

The reality is that our industry has matured in an unexpected way, and the people who use our products are passionate about them. Apps are a hit. And TestFlight, for example, is a way of bringing more non-devs in on the software-making process; it's a behind-the-scenes look. One starts to think of software less as the product of a machine and more as a creative endeavour.

A NEW OPPORTUNITY

This is no accident, and Apple is only too eager to embrace and further this trend. On the Yosemite preview page, Apple says:

"We've created new tools – even a new programming language – for app

developers to build the next generation of apps and games. And that will make the Mac experience even richer for you."

This year, Apple has provided developers with a series of things we get to do, rather than things we need to do. Unlike last year's iOS 7 visual refresh, which brought with it the need to rethink an existing set of problems, Yosemite and iOS 8 offer a gateway to digitally authentic sophistication.

For example: from the earliest days of iOS, one of the biggest differences between desktop and mobile was the obfuscation of the filesystem. Originally this was to keep things conceptually simple and move past the dated metaphors of software past. In iOS 8, files make a return. Not to confuse or complicate, but to empower. Apple stripped down the experience to bare metal and is building back up fast.

Those of us who make software tend to see our industry through the lens of what came before us: a scrappy group of nerds banded together to start software companies and change the world. It's easy to continue to cast ourselves as the underdogs, but the truth is that we won. Technology is cool now. People are buying computing devices and software at a rate unmatched in history. All kinds of people like this stuff, and now Apple is empowering and encouraging us to make software for all kinds of people.

Murray Mirror

This month's winner reflects our love for scenic photos.



Travelling down the Murray River a little from our June iSnap winner, this month's favourite iSnap photo comes from Rachel Crane and shows the vast expanse of Australia's longest river.

Reflecting the clouds above, the mountains in the distance and trees rising from the water in the foreground, Rachel's photo was taken while driving along the Murray River Road, to the east of Lake Hume.

"I'm not from the area and was taking a drive and having a look around," Rachel explains. "The water was completely calm and, with all the tree trunks and hills around, there were fantastic reflections on the water."

Pulling out her iPhone 5, Rachel didn't turn to the Camera app; instead she snapped this picture with eyeApps's \$2.49 Pro HDR photography app.

"I love taking photos with my iPhone 5. I'm a big fan of the Pro HDR app," Rachel says. "It takes a great HDR photo with some simple brightness, exposure, saturation, tint and warmth adjustable settings."

The speed and portability of the iPhone makes it a great option for photographers caught in a moment they may not experience again, according to Rachel.

"The major advantage of iPhone photography is the swift ability to snap

a moment," she says. "I pulled over, jumped out of the car, snapped two photos and a huge flock of birds landed on the water just after, breaking the reflection. If I'd tried to get my DSLR out and take the photo I would have missed my chance!"

For those who have the opportunity to revisit a location, Rachel says they should analyse how the lighting changes throughout the day to pick the best options for shooting.

"When I find a great photo location, I like to go back at different times of the day and see how the light changes the location. It can make a great series of photos."

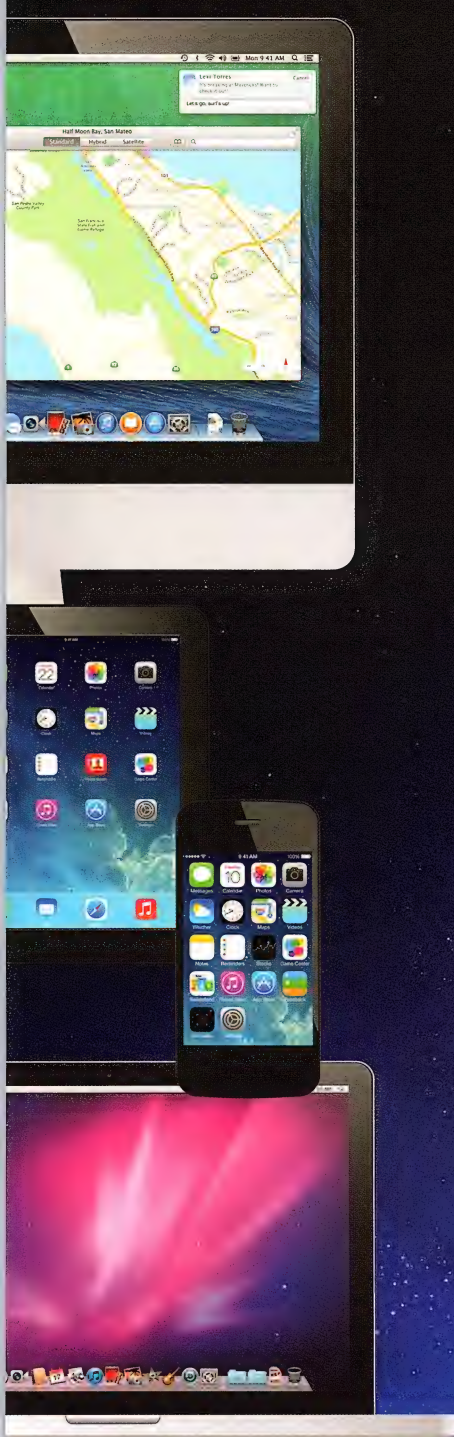
In iSnap we're on the lookout for some of the best photographs being taken with iOS devices. Submit your favourites to macworld@macworld.com.au for your chance to be featured in the online iSnap gallery (www.macworld.com.au/isnap). Each month's winner will win a prize and appear on this page!

This month's prize is a tabMount (\$39.99) and a Shutter Remote (\$54.99) from iStabilizer. Mount your tablet to any standard tripod with the iStabilizer tabMount. The iStabilizer tabMount is a must for professionals and amateur filmmakers and photographers.

The Shutter Remote offers control over your device via Bluetooth. The remote allows users to capture photos, change music tracks and volume, play and pause movies on an iOS device or Mac, activate Siri and initiate navigation.

www.istabilizer.com





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MacBook Pro versus MacBook Air: How I made the choice

How do you select a new Mac laptop to replace two ageing machines? One writer's dilemma.

Recently I struggled with a distinctly first-world problem: I had too many computers.

There was my main iMac, which I loved. There was my 'power' laptop, a mid-2010 15in MacBook Pro (with a 1680 x 1050 pixel display and a recently installed 750GB SSD), which I loved. And there was my 'light' laptop, a mid-2012 11in MacBook Air, which I loved (and which replaced an older 11in Air). So what was the problem?

I didn't travel often enough to justify owning two laptops. Generally I took the Pro when I needed the extra screen space and the more powerful (or so I thought) CPU; otherwise, I took the Air. But then I also had to remember which one held the files I required for each trip. It was a horrid setup and it needed fixing.

My proposed solution: sell the old laptops and replace them with one that combines a large pixel count, light weight and a powerful CPU, yet is small enough to fit in most bags. And I needed to keep the total cost under \$2500.

THE CONTENDERS

I considered my options. Given that I'd tried an 11in Air and found its screen size wanting for some tasks, I ruled out that model. The 15in Retina MacBook Pro had a few deal-breakers. First, at 2kg, it's almost 500g lighter than the 2010 version but about 1kg heavier than the 11in Air. Second, you can make a package only so small if it has to contain a 15in display. Third, I could afford only the entry-level Pro, and I wasn't sure whether its 256GB drive would suffice.

That left the 13in MacBook Air and the 13in Retina MacBook Pro. I wavered between them quite a bit; one day I spent enough time at the Apple Store that I probably spoke to every single employee. The Air was light (at 1.35kg), whereas the Pro boasted faster graphics and a beefier CPU. Back and forth I went.

With the Air, I worried that I wouldn't find the 1440 x 900 pixel display roomy enough. I didn't have that concern with the 13in Retina Pro. Why? I intended to use OS X's 'scaled' displays option, which lets

the display act as though it has either 1440 x 900 pixels or 1680 x 1050 pixels of resolution. The latter setting would give me the same pixel count as my old 15in MacBook Pro, in a tidy 13in package. So I spent a lot of time looking at the 13in Pro's screen in 1680 x 1050 (as well as in Retina mode); it seemed fine to my eyes.

Another factor: a 13in Air configured with upgraded RAM and storage space (and with the faster CPU) cost \$400 less than an equivalent 13in Retina Pro. For that extra \$400, I'd get better graphics (Intel Iris versus Intel HD Graphics), and a notably faster CPU (a 2.8GHz Core i7 versus a 1.7GHz Core i7).

THE DECISION

So that was that: I purchased the \$2449 13in Retina MacBook Pro, equipped with the 2.8GHz Core i7, 8GB of RAM, and 512GB of PCIe-based Flash storage. (The Apple Store even had that configuration in stock, which surprised me.)

I'm now carrying an extra 500g (and a few centimetres of size) over

my old Air, but saving 1kg (and many centimetres of size) over my old MacBook Pro. The 13in Retina Pro's compact dimensions should make it reasonably easy to use on an airline.

At the simulated 1680 x 1050 pixel resolution, the pixels are denser than on my 15in machine, but even with my ageing eyes I can use it quite well. On certain websites I have to use ⌘+ (plus) to increase the size, but I like how much more space I have in comparison with Retina mode. When my eyes tire, I can use the in-between 1440 x 900 setting. When I want to read or browse a lot, I can set the machine back to Retina.

PERFORMANCE TESTING

When you elect to use a 'more space' screen mode, the system warns you that using scaled resolution may affect performance. That makes sense, as the Mac must work to create a resolution that doesn't exist natively on the display. But how much of a performance hit would I take for that? To answer that question and others, I ran some informal benchmarks on my laptops old and new, as well as on my mid-2011 iMac for comparison.

First, I created a new user on each Mac. Then I rebooted, logged in to the new account, ran each benchmark two times, and averaged the results. I ran the resolution-dependent tests (GpuTest, Unigine Valley and parts of Xbench) on the new Retina Pro at Retina and at 1680 x 1050; I also ran GpuTest and Valley in an 1152 x 720 pixel window, which was the largest I could fit on the 11in Air.

Some interesting tidbits:

PCIe flash 'hard drives' are incredibly fast. The 13in Retina MacBook Pro finished well ahead of my other Mac laptops, which use SSDs.

Core i7 performance is improving. The Haswell Core i7 processor in the new laptop was 30 to 60 percent



The 13in Retina MacBook Pro's compact dimensions should make it easy to use on an airline.

faster than the Arrandale Core i7 in the 2010 MacBook Pro; it was also 15 to 30 percent faster than the Ivy Bridge Core i7 CPU in the 2012 MacBook Air.

My old 'power' laptop wasn't so powerful in these tests. I expected the newcomer to trounce the old Pro, but I was surprised when the Air crushed it repeatedly, despite the old Pro's 2.66GHz CPU and discrete video card (versus the Air's 2.0GHz CPU and on-board video hardware).

Laptop graphics have come a long way. At Retina resolution, the new MacBook Pro's frame rate on most tests was roughly twice that of the other laptops – even when the machines were working in windows of identical size.

Still, while the new laptop's results were impressive compared with those of its predecessors, it was nothing next to my nearly three-year-old iMac, which led the pack in all of my graphics tests.

Scaled mode really does affect performance.

Unigine Valley and GpuTest showed a dramatic drop in graphics performance at 1680 x 1050. Not only were there more pixels to move around during the tests, but those pixels were simulated, forcing the Mac to work harder.

Even so, the new laptop was graphically faster than either of my previous portables. (The 11in Air beat the 13in Retina MacBook Pro by one frame per second in the GpuTest, but that's a wash.) And the drop-off wasn't evident when I was doing normal stuff such as working with the Finder and apps; I saw only a minimal drop-off in Xbench's Quartz and UI scores in the 1680 x 1050 pixel mode. As long as I'm not using the new machine for doing OpenGL work or playing games, the impact on daily use is minor.

WRAPPING IT UP

I've had my 13in Retina MacBook Pro for a couple of months, and it's an ideal replacement for my two old laptops. Even though it's slightly bigger and heavier than my old Air, I've gained a much faster Mac with not only a physically larger display but also more pixels (even in Retina mode). 📺

An illustration of a home office. On the left is a tall dark brown bookshelf filled with books of various colors (blue, red, yellow, green) and stacks of papers. On the right wall is a round analog clock showing 12:00 and a grey bulletin board with several papers and colorful sticky notes. In the center is a black desk lamp. On the desk is a computer monitor, a microphone, and a stack of books. The background is a light teal wall and the floor is brown.

THE COST OF SETTING UP A HOME OFFICE

WHAT DO YOU NEED TO BECOME PRODUCTIVE AT HOME?
AND HOW MUCH WILL IT COST?

When the time comes to get some work done at home, there's more to setting up a home office than simply slapping your MacBook down on the dining room table. Whether you're self-employed or working for the man, chances are you sometimes need to knock over some work at home. If these times are few and far between, then you may get away with sitting at the dining table or resting on the couch, but often there comes a time when you need to create yourself a decent workspace.

ADAM TURNER investigates.

The key to working at home is productivity – there's little point in burning through your home time if you've got little to show for it at the end of the day. This means you need to work at home effectively and efficiently. Not everyone can commandeer an entire room as a home office, but even establishing a workstation in a quiet corner of the house can make a big difference to productivity.

Putting a price on a home office is tough, but we've made some rough calculations on what you need to get started. They're recommended retail prices, so you should do better if you shop around. You may be able to claim much of this on your tax, along with a slice of your utility bills, but it's best to consult your accountant for financial advice.

WORKSTATION

Let's assume you already own a desktop Mac or a MacBook of some description. Perhaps there's also an iPad on the coffee table, which is useful for both work and play, but it's unlikely to make do as a full-blown workstation for regularly working at home. For all its strengths, iOS can be a frustrating work environment compared to a desktop operating system. That aside, working for hours on an iPad isn't great for your neck or back. You don't want home productivity to come at the expense of your health.

The next step up from working on your MacBook at the kitchen bench or dining table is to invest in an external keyboard, mouse and monitor. The extra screen real estate certainly comes in handy but, more importantly, sitting at a proper workstation encourages the correct posture. Also look for a decent office chair.

When seated at your workspace, you want your monitor at eye level and your arms straight by your sides. Your elbows should be level with the keyboard, or slightly above, so you can keep your wrists straight while typing. If room allows, and your budget stretches, it's worth investing in an ergonomically sound office chair – allow about \$100 – along with a proper desk or workstation. Good lighting is also important. Aim for diffused lighting rather than a bright light directly overhead and avoid unshielded light sources or glare in your field of vision, including on the monitor.

For Apple fans, Apple's 27in Thunderbolt display (\$1199) seems the logical choice for a monitor, but it's worth considering the alternatives. As the name suggests, the Thunderbolt display only features a Thunderbolt video input. It's actually designed to be a full Mac docking station with a built-in FaceTime HD webcam, three USB 2.0 ports, Firewire 800 port, Gigabit Ethernet and a Thunderbolt port for daisy-chaining additional

Thunderbolt devices. There's even a MagSafe connector to power a MacBook.

You can connect an older Mac via a Mini DisplayPort to Apple's Thunderbolt display, but you won't be able to access all of the monitor's built-in features. Apple's Thunderbolt display may also frustrate you if you want your workstation to double as a home entertainment space. Rival monitors offer several alternative video connectors such as HDMI, DisplayPort, DVI and D-Sub.

If you're avoiding Apple's Thunderbolt monitor you may consider Belkin's Thunderbolt Express Dock (\$349) for hooking up all your desktop peripherals to your Mac's Thunderbolt port with a single cable.

If you're looking beyond Apple's monitor you'll find various adapters for connecting your Mac's Thunderbolt or Mini DisplayPort video connector to HDMI, DisplayPort, DVI or D-Sub monitor inputs. If you want to hook your iGadgets up to a monitor, you'll also find Lightning adapters and older 30-pin adapters for VGA and HDMI monitors.

There are plenty of dirt-cheap monitors on the shelves, but you get what you pay for when it comes to screen quality. If you'll spend plenty of time staring at your monitor, it's worth investing in a decent one. If you're chasing size and picture quality to rival Apple's Thunderbolt



Whole solution. Apple's 27in Thunderbolt display offers a range of ports and can act as a Mac docking station.

display, look to the likes of Samsung's 27in S27B970D (\$1299) and Dell's 27in U2713HM (\$829).

If these 27in giants are out of your price range, you'll also find some great 23/24in monitors like Dell's P2314H (\$309), but even if you're on a budget you should be reluctant to drop down lower than 21 inches.

Alongside your monitor, the standard Apple Keyboard with Numeric Keypad (\$59) is an obvious choice for your USB desktop keyboard because it features all the Mac function keys. If you're looking to cut down on cable clutter, you may look to the Apple Wireless Keyboard (\$89), which is Bluetooth enabled so it can work with a MacBook or an iGadget. Accompanying your keyboard you'll want to add an Apple Magic Mouse (\$89), Magic Trackpad (\$89) or standard USB Apple Mouse (\$59).

COST: \$600-ish. For this you'll pick up a reasonable office chair, 24in monitor and video cable along with an Apple keyboard and mouse or trackpad. Spending more on a desk or workstation depends on your budget and available space.

SOFTWARE AND SERVICES

Apple's iWork office suite of desktop and mobile apps is free these days, as is Google's online suite of Office apps. If you want something that better mimics Microsoft's offerings then you might look to the free OpenOffice, which is compatible with Microsoft formats.

Of course Microsoft Office itself has undergone a dramatic change with the new Office 365 subscription model, which starts from \$9 per month. In return, you get all of Microsoft's Office desktop applications, as well as tight integration with Microsoft's online storage and cloud editing tools. If you're looking for the easiest way to shuffle files between Mac and Windows without the need to convert between formats, then Microsoft is probably your best bet.

You'll also want access to a cloud storage service for backing up your files and syncing them between all your devices. Apple's iCloud is rather limited



once you stray beyond iWork files, but there are plenty of free alternatives such as Dropbox, Google Drive and Microsoft's OneDrive.

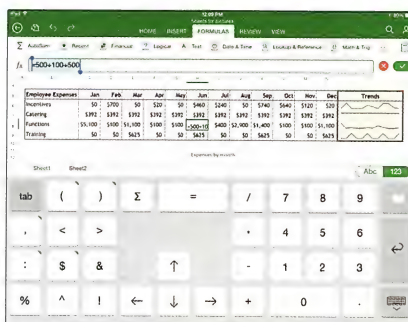
If you run your own business, then you'll probably be looking for accounting software. Cloud-based services such as Saasu and Xero start from \$9 and \$25 per month respectively, challenging traditional players like MYOB and Reckon, which offer both online and desktop options.

There are a few other gems worth adding to your arsenal. The free FormulatePro lets you write on PDF files so you don't need to print, sign and scan digital documents.

LogMeIn is a great remote desktop tool if you need to access your home computer from a mobile device. It's no longer free, but there are alternatives like TeamViewer.

If you need to run Windows on your Mac, you can try Parallels, VMWare Fusion or perhaps the free Virtualbox.

COST: \$0-ish. It totally depends on what you do for a living, but you should be able to get most of what you need for free.



Subscription model. Microsoft's new Office for iPad apps are free to download, but require a monthly subscription to utilise fully.



DESKTOP PERIPHERALS

Apple has banished optical drives from the latest range of Macs, but if you're still attached to them you may benefit from adding an Apple USB Superdrive (\$99) to your workstation.

If you're after one with the lot, consider the NewerTech miniStack MAX external hard drive that also features a Blu-ray/DVD/CD burner, SDXC memory card reader and USB-powered hub. Unfortunately, if your Mac doesn't include a built-in optical drive then Apple's DVD Player application probably won't recognise a movie DVD inserted into the miniStack MAX or other third-party external optical drive.

Some monitors feature built-in speakers, but if you're buying standalone speakers, then you're spoiled for choice depending on your budget and whether you have an ear for quality. If you're after basic sound on a budget, then it's hard to go past Logitech's Z150 (\$35) stereo speakers. If you're looking for a little more bass, then step up to Logitech's LS21 (\$49.95), which includes a separate small subwoofer.

From here the sky's the limit. The more time you'll spend at your workstation the easier it is to justify spending more on speakers – especially if you're a music lover and listening helps you stay focused on work. If you're after top shelf sound, then consider the likes of Harman Kardon SoundSticks III (\$249.99), M-Audio BX5 D2 (\$349) and Audioengine 5+ (\$399).

Of course, if your workspace is tucked away in the corner of a shared living area then you may be better off investing that money in decent headphones. Headphones come in three main designs: intra-aural, supra-aural and circumaural.

Intra-aural headphones are tiny earbuds, which tend to lack bass, although you can look to 'canalphone' earbuds like the Sennheiser CX 300-II Precisions (\$99.95), which wedge into your ear canal to block outside noises and offer better bass levels.

At the other end of the scale, circumaural headphones feature large pads that completely cover your ears. Along with richer sound, they generally do a better job of blocking out the noise of the outside world. Don't spend extra on active noise-cancelling headphones if you'll only use them at home. Noise-cancelling is most effective with constant drones, such as aircraft noise, rather than the random shouts of children in the next room.

Circumaural headphones are divided into open-back and closed-back designs. Closed-backed headphones like the AKG K430 (\$149) and Sennheiser HD 438 (\$119.95) are sealed, keeping in the sound while blocking the outside world. The trade-off is that they can feel a little claustrophobic and sweaty. Open-back headphones like the Audio Technica ATH-AD400 (\$179) let sound escape from the back of each headphone via a grille. They also let in more sound from the world around you.

Between intra-aural earbuds and circumaural headphones sit supra-aural headphones like the Sennheiser PX100-II (\$99.95) and Grado SR60i (\$130), which sit on top of your ears, rather than inside or around. They tend to be a compromise between circumaural and intra-aural in terms of sound quality and comfort, plus they let in more background noise.

Underneath your desk you'll want a powerboard, preferably with a built-in

surge protector to safeguard your equipment during power spikes. Also look for individual switches for each power socket, so you can completely cut the power to equipment not in use. If you leave the switch on, most devices tend to suck a little juice even when they're powered down, which adds to your electricity bill. Options include the APC SurgeArrest Home/Office (\$89), Belkin Gold Series 8-Way (\$99.95) and Jackson 6-Way Switched Surge Board (\$59).

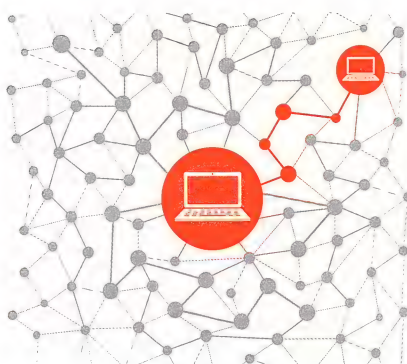
COST: \$120-ish. This should get you a powerboard with a surge protector and entry-level speakers or headphones, but don't be afraid to spend more on sound.

BROADBAND AND VOICE

You're probably paying for broadband internet access anyway, but there are a few things to consider if you'll be regularly working from your home office.

If you're working at home full-time, you probably can't afford for your home internet connection to go down. You can generate a Wi-Fi hotspot from your smartphone in an emergency or you might invest in a standalone Wi-Fi hotspot. These start from \$20 per month with a few gigabytes of data.

When it comes to phone calls, it's perhaps easier to just use your mobile phone rather than hooking up a second copper phone line for your office. But if you want a dedicated work number, you should consider VoIP (Voice over Internet Protocol) – it's much more economical than a standard phone line, especially if you're making long distance calls.



VoIP services provided by your internet service provider (ISP) tend to be a little more expensive, but are also more reliable than third-party services, because your ISP can give your call priority over other data traffic and they support higher-quality audio codes such as G.711.

You can buy standalone VoIP adapters such as the Cisco SPA112 (\$89), which connect to your broadband modem via an Ethernet cable. Alternatively, you may consider upgrading to a broadband modem with built-in VoIP adapters, so you can plug your phone straight into the modem.

Once you've got two voice services you need to decide how you're going to access them around your home. You may just add a basic handset to your desk like the Telstra T800, but you could also consider several dual-line DECT cordless handsets such as the Uniden XDECT R055 + 2 (\$329.95), which includes three cordless handsets so you can make and receive calls from either phone number anywhere in the house.

COST: \$150-ish plus \$10 per month.

That gets you a VoIP adaptor and basic handset, plus monthly rental for a VoIP service, which will hopefully include a few free calls.



Short-term option. A quick way to get internet at home is to use your iPhone as a Wi-Fi hotspot; however, it may become expensive. Head to *Settings > Personal Hotspot*, set a password and turn it on. Then connect your Mac or tablet via the Wi-Fi menu on the receiving device.



Compact. The NewerTech miniStack MAX features a Blu-ray/DVD/CD burner, SDXC memory card reader and USB-powered hub.



HOME NETWORK

Your broadband modem may feature a built-in Wi-Fi hotspot, but otherwise you could connect up an Apple Airport Extreme (\$249) that can generate simultaneous 2.4 and 5GHz networks. You'll find 5GHz n and ac networks are faster than 2.4GHz g networks, plus they're less susceptible to interference.

If there are Wi-Fi blackspots in your home, download WiFi Explorer (\$3.79) from the Mac App Store to test the Wi-Fi strength in each room. Apple's Airport Express (\$119) can act as a Wi-Fi extender to boost the signal around your home, plus you can hook up speakers to take advantage of AirPlay music streaming.

While Wi-Fi is convenient, Ethernet cables are faster and more reliable, so you may want to invest in something like the D-Link DGS-1005D 5-Port Gigabit Desktop Switch (\$59) to share one Ethernet cable with all the devices in your office (one in your lounge room AV cabinet may also be handy).

If Wi-Fi isn't up to the task and it's not practical to run Ethernet cables, then you can run a link through your electrical wiring using Powerline AV adaptors such as Netgear's XAVB5001 Powerline AV+ 500 Adapter Kit (\$219).

COST: \$119-ish. It just depends on how unlucky you are with your home network environment. You may not need to spend anything, but we've factored in an Airport Express to be safe.

NETWORK ATTACHED STORAGE DRIVE

Rather than connecting to a single computer via USB, a network attached storage (NAS) drive connects to your home network via an Ethernet cable, so it's accessible from all the devices around your home.



A NAS makes a handy central location for storing backups of your important files and perhaps your multimedia library for streaming to the office and around your home. Look for a NAS that supports both Samba and AFP networking in order to get faster transfer speeds from your Mac. Many NAS drives can also support Time Machine backups from your NAS.

Apple's Time Capsule (\$349) may seem like the obvious choice, but it's rather limited compared to what you'll find elsewhere. Other network drives make room for multiple drives for redundancy if one fails, plus they support remote access via protocols such as FTP and WebDAV. Most third-party NAS drives can also act as an iTunes and DLNA server for streaming multimedia around your home and office.

Many NAS drives will connect to cloud storage services, making it easy to upload files for the extra protection of off-site storage should fire or flood strike your office and claim both your computers and your NAS.

If you're on a budget, the LaCie CloudBox (\$119, 1TB) offers good value for money, but also check out the more flexible Western Digital My Cloud (\$219, 2TB). If you're looking for the protection of data redundancy, then consider a dual-drive NAS such as the Netgear ReadyNAS RN102 (\$379, 1TB) or Seagate Business Storage 2-Bay NAS (\$399, 4TB). If fast data transfer speeds are crucial, then consider a NAS with a powerful Intel processor, like the Synology DS214play (\$439 plus drives).

COST: \$200-ish. This will get you an entry-level NAS, but you may spend more depending on where your priorities lie and how devastating it would be to lose all your important documents.

NAS ROUND-UP

FOR IN-DEPTH REVIEWS
HEAD TO MACWORLD.COM.AU



Synology DS214play



Netgear ReadyNAS RN102



WD My Cloud EX2



Thecus N2560



Netgear ReadyNAS RN104



WD My Cloud EX4



Seagate Business Storage 2-Bay NAS



LaCie CloudBox





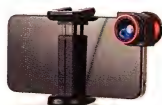
Universal Compatibility. Portable Design. All-terrain

GripTight Mount™

Attach your smartphone to any tripod, including JOBY's video and magnetic GorillaPods.

Size	Dimensions
Regular:	54mm-72mm
XL:	69-99mm

 1/4"-20



GripTight GorillaPod Stand™

Wrappable joints and grippy rubber feet mean you can position your phone anywhere, for the best viewing angle or photo opportunity.

Size	Dimensions
Regular:	54mm-72mm
XL:	69-99mm

 1/4"-20



GripTight Micro Stand™

Most portable tripod and mount bundle out there. Easily fits in your pocket or on your keychain.

Size	Dimensions
Regular:	54mm-72mm
XL:	69-99mm

 1/4"-20





PRINTER OR MULTIFUNCTION DEVICE

The paperless office is a dream that few of us have managed to achieve, so chances are you'll need access to a printer and scanner.

If you're mostly printing text, then it's more economical to buy a laser printer than to rely on an inkjet printer, because inkjet printers are more expensive to run in terms of ink costs. Even when it comes to laser printers, as a general rule, the cheaper the printer, the more expensive it is to run.

The most practical solution for most home offices is to invest in a modest monochrome laser multifunction device that can act as a printer, scanner, copier and fax machine – such as the Fuji Xerox DocuPrint M255 z (\$499) or HP LaserJet Pro M1536dnf (\$599). If you don't need the fax features, or you're prepared to use an online fax service, then you could look to a cheaper model, which includes only a printer, scanner and copier.

If you need to regularly print in colour, then you may step up to a colour multifunction device. Some have dropped in price of late like the Fuji Xerox DocuPrint CM215 fw (\$405). This new model is actually cheaper than the Fuji Xerox's entry-level monochrome laser MFDs, but when you read the fine print you discover it prints more slowly and features a smaller paper tray. Keep in mind that colour inkjets do a better job of producing photo prints than colour laser printers.

These limitations may not bother you, but they're the kinds of things you may sacrifice when you opt for a cheaper printer. Also compare the cost of replacement toner.

If you only need to do the occasional spot of colour printing, then a separate

colour inkjet printer might be useful, but remember that dirt-cheap models will sting you in the long run. Also consider whether it's more economical to outsource your colour printing to somewhere like Officeworks.

Cost: \$500-ish. If you skimp on your printer you'll only end up replacing it later, so it's probably best to bite the bullet and invest in at least a monochrome laser multifunction device.

CONCLUSION

That comes to a rough total of \$1600 to get yourself up and running in a home office, cheaper if you shop around on price. Of course, everyone's circumstances are different, so you'll need to determine your own priorities and you'll want to spend more in some areas and less in others. If you skimp and are forced to upgrade later, then it may have made more sense to spend the extra money upfront. ☞



Upgrade Air or Retina from under \$100



OWC Aura / Aura Pro for MacBook Air models

120GB–480GB from \$95.00

www.macsales.com/air



OWC Envoy + Envoy Pro *Reuse the factory SSD via the OWC Envoy as an external storage solution!*

Bundles starting at \$119.00



OWC Aura / Aura Pro

for MacBook Pro with Retina display

240GB \$159.00 | 480GB \$299.00

www.macsales.com/retina



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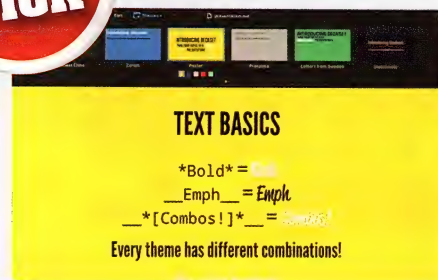
MAC GEMS

NEW SOFTWARE FROM THE MAC APP STORE

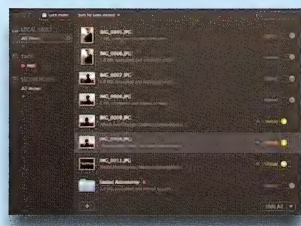


DECKSET
PRODUCTIVITY
Unsigned Integer
\$24.99

Like Adobe Voice (App Guide, Page 53), Unsigned Integer's Deckset aims to remove this obstacle while making it easy to create clean, attractive presentations. But unlike Adobe's iPad creation, this Mac app goes about the task in a very different – and delightful – way. Though it offers eight beautiful themes for your presentations, the majority of your visual work with Deckset is done outside the app, in your favourite plain-text editor. That's because Deckset uses basic Markdown syntax to style your text to your theme. One omission we hope to see addressed in future versions is transitions. Deckset is the kind of program that begs you to save time with it rather than spending hours styling font colours and sizes.



HIDER 2
UTILITIES
MacPaw
\$24.99



MacPaw's Hider 2 shields certain files from prying eyes. Hider 2 creates a password-protected vault on your Mac, which can be added to via a simple as drag and drop. After the files are entered, Hider 2 immediately encrypts and hides those items from public

view. Hider 2 doesn't securely delete the original files, however; they are placed in the trash, so be wary if they are extremely important files.



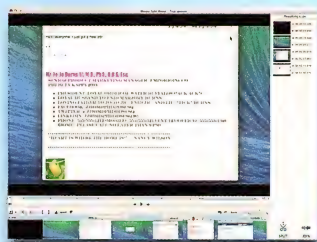
MAIL PILOT
PRODUCTIVITY
Mindsense
\$24.99



There are equally eye-pleasing, fun and useful email clients that cost less; several are also more versatile and feature-packed. But none offers Mail Pilot's singular dedication to clearing out your cluttered inbox. If your email needs a productivity power boost, and you're on board with Mail Pilot's approach to handling your messages, you'll find a lot to like about this program.

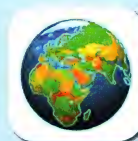


SPLIT MOVIE FOR MAC
VIDEO
Movavi
\$19.95



Movavi's Split Movie is a utility to make seemingly simple video edits easier. The app's interface is mostly straightforward. Just launch Split Movie and drag a video file into the window and you are running. Once you get the hang

of the app, you can cut movies pretty quickly, but it could be presented in a cleaner and more intuitive way. Available via www.movavi.com.



EARTH 3D - AMAZING ATLAS
EDUCATION
3Planesoft
\$3.79



3Planesoft's Earth 3D - Amazing Atlas is a great educational tool designed to help anyone who's interested in geography learn more about our planet. The app provides a thorough overview of the world, with beautifully designed landmarks and lots of detailed information about everything from the tallest skyscrapers to the largest peninsulas.



MOVIE EXPLORER REFERENCE

Ron Elemans
FREE



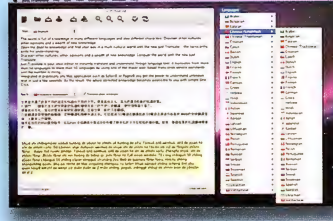
Developer Ron Elemans's Movie Explorer scans your hard drives for video files and attempts to match them with information from the Internet Movie Database (imdb.com). The free app maps all your movies and

TV shows, collecting them in a single location using a beautiful graphical interface, and providing all kinds of metadata about them.



JUST TRANSLATE TRAVEL

Jalada
\$12.99



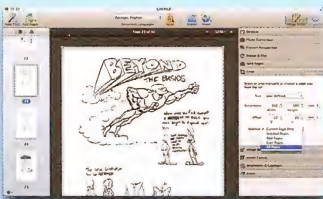
Jalada's Just Translate allows you to translate between 50 different languages, from Afrikaans to Yiddish. The app allows you to translate text while working in other applications and supports transliterations for languages

that do not use the Latin alphabet. Users can also save, print and export translations to PDF. The app requires an internet connection.



FINEREADER OCR PRO PRODUCTIVITY

ABBYY
\$129.99



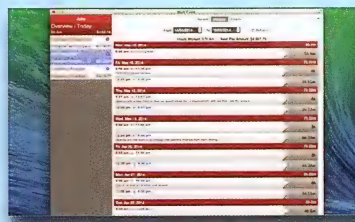
ABBYY's FineReader OCR Pro helps you turn the text you see in images, photos and even scanned PDF documents into proper textual data that you can export, categorise and search. The

app supports many different data formats – both for input and output – and understands 189 different languages, including Asian dialects, in any combination.



WORK CLOCK BUSINESS

Sockii
\$18.99



If you end your day wondering where all the time went, look no further than Sockii's Work Clock, a time-tracking app designed for power and simplicity of use. The app supports an unlimited

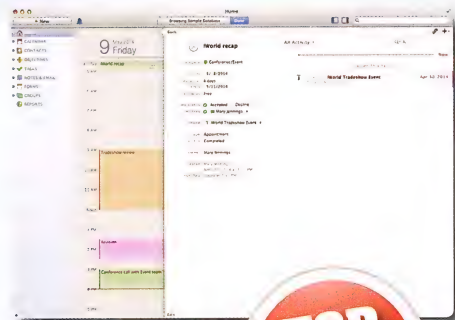
number of activities, can export data in multiple formats and supports iCloud syncing with its companion iOS apps.



DAYLITE 5 PRODUCTIVITY

Marketcircle
\$299.95 PER USER (DISCOUNTS FOR MULTIPLES)

Daylite 5 is a centralised, comprehensive business and contact management application designed to help you and all your employees keep tabs on your current business, prep for new business, and make sure you don't miss a trick when it comes to everything from client birthdays to project management. Initial import issues and weak documentation aside, Daylite is a great tool for organising and managing every aspect of your business projects and relationships. The program can capture mail messages, link multiple contacts and businesses together, and gather all the information necessary to make the most of every business opportunity, and keep your present and future clients satisfied. Available via www.puremac.com.au.



**TOP
PICK**



Cygnett ChargeUp Sport

The Cygnett ChargeUp is a portable battery bank for your smart devices. The power pack carries 4400mAh of charge in a rubber exterior. The ChargeUp Sport lets you know the level of charge remaining via a LED indicator and is available in black or grey with colour trims.

\$39.95 / Cygnett / au.cygnett.com

**GEAR
GIZMOS
GOODIES**

GADGET GUIDE



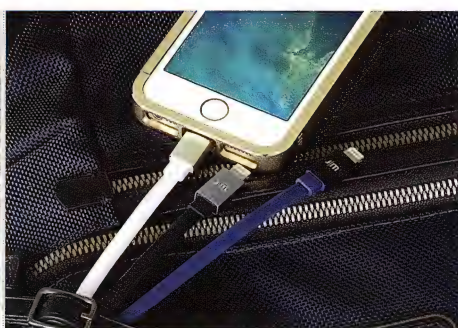
Native Union Switch

Searching for a portable Bluetooth speaker? Maybe the Native Union Switch is the audio device for you. The Switch is a three-way Bluetooth speaker, conference call unit and smartphone charger. The speaker has an 1800mAh battery, boasting up to 14 hours of music and calls and a USB port for charging external devices. The Bluetooth can cover 10 metres.

From \$199.95

Native Union

www.nativeunion.com/au



Just Mobile AluCable Flat

The AluCable Flat from Just Mobile is a 1.2m USB to Lightning cable for syncing and charging iPhone, iPad and iPod devices. The Apple-certified cable features connectors encased in aluminium and is available in three colour combinations. The connectors match the iPhone 5s colour range (silver, space grey and gold), while the cables are black, blue and white.

US\$19.95

Just Mobile

www.just-mobile.com



Uniden iGo Cam 750

For those worried about getting caught out in road accidents or disputes, the Uniden iGo Cam 750 will be of interest. The HD-recording dash cam features a built-in G-sensor and a Collision Detection Mode, which automatically begins recording when a situation on the road changes. The cam also features lane assistant technology, night vision, geotagging, a 2.7in display and speed camera warnings.

\$179.95

Uniden

www.uniden.com.au



Arcam rDock-uni

The rDock-uni from UK audio company Arcam is a docking station for Lightning-equipped iPhones, iPods and iPads. The dock is a plug-and-play solution for home cinema or Hi-Fi systems, offering audiophile quality sound. The rear of the dock features a USB port, SPDIF connectivity for high-end external DACs and analogue stereo out ports. The dock charges connected devices and comes with an IR remote for controlling music.

\$399
Arcam
www.arcam.co.uk



Linksys WRT1900AC Dual-Band Wireless- AC Router

The first router to be launched in Australia and New Zealand by Linksys in 2014, the WRT1900AC features four external antennas and the 802.11ac Wi-Fi standard. The router is packed with a 1.2GHz processor, 128MB Flash memory, eSata, USB 2.0 and USB 3.0 ports. According to Linksys, the router can reach speeds of 1300Mbps on the 5GHz band and 600Mbps on the 2.4GHz band.

\$299.95
Linksys
www.linksys.com



BenQ BL3200PT 32in monitor

The first 32in monitor from BenQ, the BL3200PT is equipped with a 1440p 2560 x 1440 VA display, a 3000:1 contrast ratio and a grey-to-grey response time of 4ms. The monitor has VGA, Dual Link DVI, HDMI and DisplayPort connectivity, and two USB 2.0 and two USB 3.0 ports. An SD reader, 3.5mm headphone jack and 5W speakers round out the feature list.

\$799
BenQ
www.benq.com.au

Groovemade Walnut MacBook Back

The US\$39 Walnut MacBook Back from Groovemade adds a touch of elegance and protection to your portable computer. It's compatible with the 13in MacBook Air, as well as the 13in and 15in MacBook Pros. The Back is made from locally sourced black walnut and is sanded and oiled by hand in the Groovemade Workshop in Portland, Oregon.

US\$39 + shipping / Groovemade / www.groovemade.com





iOS 7: BEYOND THE BASICS

It doesn't take much to get started on an iPhone or iPad. They're pretty much pick-it-up-and-use-it devices. But mastering them takes a bit more effort. Some useful settings aren't immediately obvious, specific workflows can take a while to remember and certain apps do things in less-than-linear ways.

That's why we've compiled, in the pages that follow, a list of things that we think all savvy iOS users should know how to do. If you've been using an iPhone or iPad for any length of time, you probably already know a lot of this stuff. But as we've said before in similar stories, we bet you don't know all of it.

BY MACWORLD STAFF



SETUP

THREE WAYS TO CUSTOMISE THE INTERFACE

1. Make the text larger and bolder.

The Helvetica Neue font can be difficult to read at times. If you have trouble reading text on your iPhone or iPad, go to *Settings* > *General* > *Accessibility* > *Larger Text* to increase the default font size on your device. To make that font size even larger, enable *Larger Accessibility Sizes* in apps that support the feature. And to make Helvetica Neue show up just a bit bolder, visit *Settings* > *General* > *Accessibility* and enable the *Bold Text* slider. (You'll have to restart your iPhone after doing this.)

2. Bring back the buttons. iOS 7 has ditched most of the traditional buttons that past versions of the mobile OS offered. But if you're after that old familiar arrow shape, you can enable it via *Settings* > *General* > *Accessibility* > *Button Shapes*.

3. Control the contrast. Some of us like white text on light backgrounds, but others find that it gives them headaches and hurts their eyes. If you're in that latter group, you'll find several options that make for easier viewing under *Settings* > *General* > *Accessibility* > *Increase Contrast*.

To increase text and background contrast for features such as Control Center and Notification Center, activate the *Reduce Transparency* option. To darken the highlight colours found in an app's menu and tab bar (the pink colour of

the Music app, for instance), toggle the *Darken Colors* switch. And to darken the white backgrounds found in apps such as Settings, use the *Reduce White Point* screen to bring the piercingly pure white colouration down to a more ocularly friendly light grey.

MANAGE YOUR RINGERS

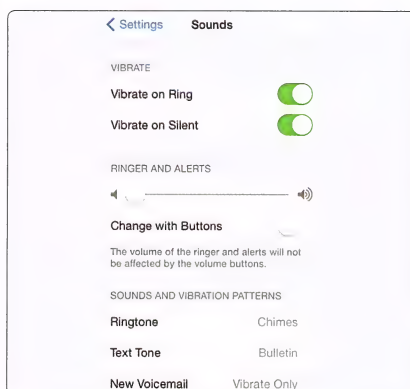
To choose tones for calls, texts and the like, go to *Settings* > *Sounds*. You can also set the ringer volume here, in the 'Ringers and Alerts' section.

You can use the two buttons on the left side of your phone (or the toggle switch on the right side of your iPad) to change the volume; but the precise functions of those buttons may vary.

If 'Change with Buttons' is active in *Settings* > *Sounds*, pressing the volume buttons will alter the ringer volume, as long as you're not listening to music or podcasts, playing games or watching videos. Otherwise, the volume buttons will adjust your media playback volume.

The mute button on an iOS device turns off the ringer, notification sounds and sound effects. If you have an iPad, the button above the volume buttons can mute the device or lock its rotation. To activate one or the other of these functions, go to *Settings* > *General*. To mute an iPad quickly, press and hold the bottom volume button.

Or bring up Control Center on any iOS device, and tap the *Do Not Disturb* button (it has a crescent moon icon).



Set ringers. If the 'Change with Buttons' option is inactive, the volume buttons on your phone won't change ringer volume.

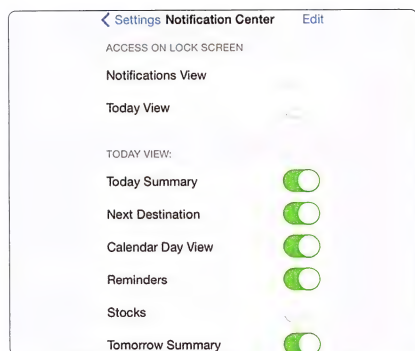
CATEGORISE YOUR BACKGROUNDS

You can individualise the look of your iOS device's screen by adding images to its lock and home screens. To do so, go to *Settings* > *Wallpapers & Brightness* and, in the Wallpaper area, tap *Choose a New Wallpaper*. Then select a dynamic pattern (one that moves), a still image created by Apple, or (from the Photos area) an image of your own.

A preview of the selected image will appear on your device's screen. Move it around by dragging it, and scale it with pinch and stretch gestures. When you have it where you want it, select suitable options from among Set Lock Screen, Set Home Screen, Set Both and Perspective Zoom (On or Off).

You can turn Perspective Zoom off if you dislike its quasi-3D appearance. To restore it, return to *Settings* > *Wallpaper & Brightness* and tap the image of the lock screen (the one that lacks icons) in the Wallpaper area. In the resulting screen, turn Perspective Zoom to *On*. Then return to the Wallpapers & Brightness screen, tap the image of the home screen and turn Perspective Zoom to *On* there as well.





No lock screen. Don't want notifications to appear in your mobile device's lock screen? You can turn them off here.

MANAGE NOTIFICATIONS

Pop-up notifications can be a boon or bane, depending on how you feel about them. Most of the controls for them are located in *Settings > Notification Center*.

At the top of the screen are two settings for lock-screen notifications. By default, when you swipe down on the lock screen, you'll see three notification options: Today, All and Missed. If you disable *Notifications View* in the Notification Center setting but leave Today View switched on, you'll see notifications for the current day only. If you also switch off *Today View*, Notification Center won't appear when you swipe down on the lock screen.

The Today View section lets you configure what will appear in Notification Center. You can turn on or off options such as Today Summary, Calendar Day View, Reminders and Tomorrow Summary. Each option is self-explanatory. If you find Notification Center too crowded, switch off any option you don't want.

In the Notifications View section, you can choose to view your notifications manually or sorted by time. If you choose *Sort By Time*, the most recent notifications will appear at the top of the list. If you choose *Manually*, you can then tap the screen's *Edit* button and drag apps into the order you prefer.

INPUT

WHAT SIRI CAN DO FOR YOU

1. Handle the basics. Siri can perform many tasks for stock iOS apps: Calendar, Clock, Contacts, Mail, Maps, Messages, Music, Notes, Phone, Reminders, Safari, Stocks and Weather.

2. Search the web. Siri can also run web searches (using Bing, Google or Yahoo), get answers to questions via Wolfram Alpha ("What's the square root of pi?" "What's the population of Mantua?"), find reviews of businesses (on Yelp), search Wikipedia and find reviews of movies (on Rotten Tomatoes). Ask a natural-language question and tap a search result to go to the source site (or app).

3. Teach Siri relationships. Instead of saying the full name of a person in an instruction to Siri, say "[your wife's name] is my wife" – and Siri will remember that designation. In the future, you can just say "Text my wife," and Siri will know exactly whom to text. Alternatively, edit your own record in the Contacts app, tap *Add Related Name* and choose a relationship and a corresponding contact.

4. Teach Siri nicknames. To help Siri understand complicated names, or to differentiate between common names, give your contacts nicknames. Open a person's record in the Contacts app, tap *Edit*, tap *Add Field*, tap *Nickname* and add the person's nickname. You can use that nickname when giving Siri commands.

5. Correct Siri's misreadings. If your friend pronounces her name "Heh-lee-na," but Siri says "Hel-eh-na," tell Siri, "That's not how you pronounce Helena." Siri will provide you with a few different clips of examples. Choose the one that's closest to the actual pronunciation and Siri will use it from then on.

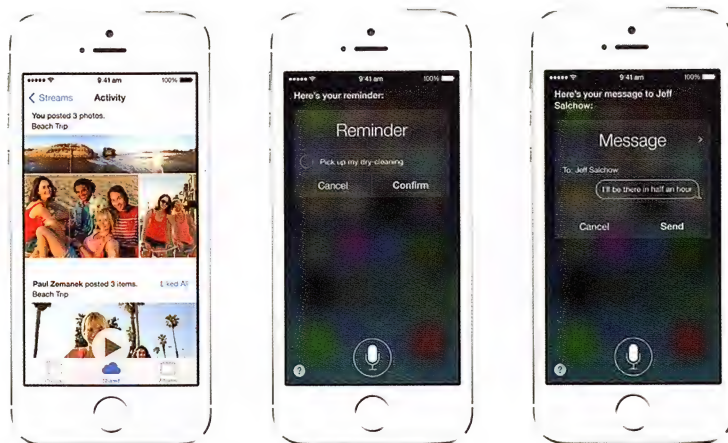
Similarly, if Siri misinterprets a command, just tap the onscreen bubble

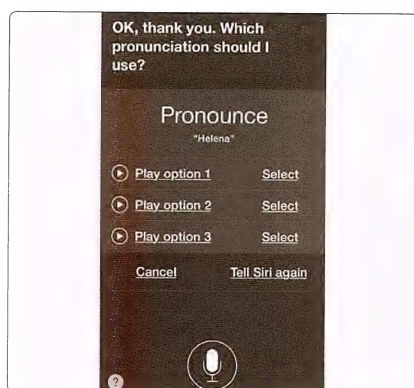
containing the incorrect text. Then edit the text and resubmit the command. Alternatively, when editing the text, tap the microphone icon on the onscreen keyboard to speak the corrected text. Or say "Learn how to pronounce [name]'s name," and Siri will comply, first asking you how to pronounce the first and last names and then offering you options for replicating that pronunciation.

6. Change settings. You can tell Siri to turn Bluetooth on or off, open a specific Settings pane and even turn on Airplane Mode. If you can't remember how to get to the screen for a setting that Siri doesn't directly support, you can open many top-level settings groups, and some second-level screens, in the Settings app – say "Open Notification Center settings," for example, or "Open Accessibility". This feature doesn't work for every section of the Settings app – in particular, those related to security.

7. Send a message. Siri lets you create and send text and email messages easily. Say "Send my wife an email" or "Text my wife," and Siri will create a new message and ask you what you want the message to say. After you dictate your message, Siri will display a preview (say "Read my message" to instruct Siri to read it back to you) and will then prompt you to send the message. Say "Send," and off it goes.

8. Be efficient. Put as much detail as possible in your initial command to Siri. For example, instead of saying "Text my wife," waiting for Siri to ask you what you want your text message to say, and





Help Siri speak properly. If Siri has difficulty pronouncing a contact's name the right way, you can teach it the correct pronunciation.

then dictating “We need to pick up the kids from the party at 4pm.” just say “Text my wife that we need to pick up the kids from the party at 4pm.” This works for calendar events and reminders, too.

9. Get the message(s). Say “Do I have any new messages [or voicemail or email]?” and Siri will tell you how many new text messages (or voicemails or email messages) you’ve received. You can ask Siri if you have messages from a particular person, too: “Do I have email from my wife?” Say “Read my new messages [or email]” or “Play my new voicemails,” and Siri will read or play them.

10. Fill your calendar. Siri will add an event to your calendar if you say “Make an event for 10am Friday called [event name].” But if you add “to [calendar name],” you can choose a specific calendar; say “with [contact name]” and Siri will add that person as an attendee – and will send the person an invitation if he or she is in your Contacts.

You can also edit events: “Move my Friday 10am [event name] to 1pm.” moves the event to the afternoon; “Add Ed Wood to Monday’s 12.30 meeting” adds that person as an attendee.

Siri can check your calendar, too. Say “When’s my meeting with Dan Moren?” and Siri will tell you. Say “Show me Tuesday,” and Siri will show you your scheduled events for that day.

11. Set a timer or alarm. Siri makes the built-in Clock app’s timer and alarm-clock features more convenient. Say “Set a timer

for 10 minutes,” and Siri will create (and start) a 10-minute timer in the Clock app – you don’t have to open the app. “Set an alarm for 7am.” creates a new alarm for that time.

12. Get directions. For directions from Siri based on iOS’s Maps app, say, for example, “Show me how to get to Armadale.” For transit or walking directions (which Apple’s Maps app doesn’t yet support), add “via transit” to the end of your command, and Siri will display a list of installed and App Store third-party routing apps. Tap one – such as the Google Maps app – and Siri will launch that app, preconfigured with your destination. (Instead of choosing a transit app, you can opt for a third-party navigation app, such as Navigon.)

13. Take notes. Say “Make a note...” or “Note that...” and you can quickly dictate a new note in Notes. Alternatively, say “Make a note called [note name],” and you can then add text to the note by saying “Add text.” You can add content to an existing note later on by saying “Add text to [note name].”

14. Set reminders. You can use Siri to schedule reminders by saying something like “Remind me to call Dan at 10.30am tomorrow.” But Siri can also handle reminder math: “Remind me to cancel my trial subscription in 14 days.” And it can configure location-based reminders: “Remind me to call the Y when I get home.” (Say “Show me my reminders” to quickly view your tasks.)

15. Eat out. To find nearby restaurants, ask Siri. Say “Are there any good delis nearby?” to call up a list of delis, with prices, location and Yelp ratings. You can search by location, cuisine, price, indoor or outdoor seating or any combination of these. Tap a listing for detailed information.

16. Launch apps. Say “Open [app name],” and Siri will open that app

(assuming you have only one app by that name). If your phone is locked, Siri will prompt you to unlock so that it can open the app as you requested.

17. Play media. Siri can launch the Music app, but it can also start playback directly. Say “Play playlist Road Trip,” and Siri will start playing the playlist called “Road Trip.” Other things you can tell Siri to play include artist names, album names and track names.

18. Be more social. If your hands are occupied, Siri can post to Twitter or Facebook for you. For example, say “Tweet that the scenery in the Barossa Valley is beautiful,” or “Post to Facebook that the weather in Hobart is surprisingly sunny today,” and Siri will do the rest. It can also search Twitter for you. Say “What are people saying about WWDC?” or “Search Twitter for WWDC,” and Siri will show you some relevant tweets. Similarly, say “What’s Dan Moren saying?” and Siri will show you that person’s 10 most recent messages.

MAKE SIRI KEEP LISTENING

Does this ever happen when you speak to Siri? You: “Remind me to –” Siri: “What would you like me to remind you?”

Siri may be there for you, but sometimes it doesn’t listen as attentively and as patiently as it ought to. If you have iOS 7.1 installed, however, you can hold down the Home button to make Siri listen for as long as you like. Siri won’t stop listening until you lift your finger.

This feature is extremely helpful when you want to record the entirety of messages and reminders.

ADD SPECIAL CHARACTERS

Some characters that you may want to type on an iOS device don’t appear on the built-in keyboard, even when you tap the 123 key (for numbers and punctuation) or the #+= key (for less-common punctuation). Though many special characters are available, they are hidden. To insert one of these characters, first touch and hold the appropriate key, slide

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MAC IN BUSINESS LAUNCHES

The new home for business-minded Apple users on macworld.com.au

While many Mac, iPhone and iPad owners use their devices for purely personal pursuits, there are those who document, record and share as part of their day to day work. What are the most efficient and effective hardware and software options for your needs? How can you start using it immediately to drive sales, connect with colleagues, create powerful presentations, reduce communication charges?

We examine the latest technology for enterprise users to help you make the best use of your time and resources for your business.

Jonathan Stewart - Editor of *Macworld Australia*

We started this section as we appreciate that technology is a critical foundation for the success of your business.



macworld.com.au

Touch and hold this...	To get these symbols...
A	ā â ã ä å æ
C	č ċ ċ
E	è é ê ë ì
I	ï ÿ
L	ł
N	ñ
O	ō ö ø ò ó
U	û ü
S	š š
Y	ÿ
Z	ž ž
, ! [iPad]	'
. ? [iPad]	"
0	°
-	— •
/	\
\$	¤ £ ¢ € ¥
&	§
.	...
?	¿
!	¡
‘ ’	„ ”
“ ”	« »
%	%

your finger over to the accented variant or other special character in the pop-up menu and then let go. To produce an accented character such as à, ç, or é, for example, touch and hold the base character (A, C, or E, respectively); for capital letters, tap the Shift key first. On the iPad's alphabetic keyboard, you can slide upward on the comma key to type an apostrophe (') and slide upward on the period key to type a quotation mark ("). On an iPhone or an iPad, slide upward on the 123 key and then over to any key on the numeric keyboard to type the matching number or punctuation mark.

SEARCH YOUR IPHONE OR IPAD

From any home screen, swipe down from the top of the screen. Type search terms in the 'Search iPhone' or 'Search iPad' field at the top of the screen; results will display as you type. From that search field, you can look for items in various categories: apps, email, contacts, notes, calendar events and reminders, voice memos, messages and music, videos, audiobooks and podcasts.



To choose which types of items the search results should display, go to *Settings > General > Spotlight search*. Tap a category to check or uncheck it, and drag categories up or down in the list to change the position where they will appear in your search results.

To search for text in the bodies of email messages, you must use the Mail app itself. Tap a mailbox, and then swipe down to display the search field. Your OS device can search email messages on your mail server, but doing so can take a while if you're on a cellular connection.

TYPE WITH SHORTCUTS

To save time and improve your accuracy when you type on an iOS device, you can set up shortcuts, each of which expands a short string of characters into something longer. For example, Joe Kissell has set up a useful shortcut that enables him to produce the all-purpose sign-off "Kind regards, Joe Kissell" simply by typing rjk.

To set up a shortcut, go to *Settings > Keyboard > Shortcuts* and tap the plus sign (+). Type the word or phrase that you want to automate (for example, your full name, your address, or a commonly used expression), and then type a shortcut (typically just a few letters) that will expand into your chosen phrase.

You can apply the same technique to correct misspellings of names and unusual terms that iOS 7's built-in autocorrect feature may miss. In fact, when using this feature to correct your spelling, you don't need to use a shortcut: iOS 7 automatically checks to see whether what you've typed is close to any of your defined phrases and offers to correct it if it suspects a misspelling.

Say this...	To get this result...
CAPITALISATION Note: New sentences, lines and paragraphs are automatically capitalised, as are recognised proper nouns, names and places.	
Cap	Capitalise the next word.
Caps on ... caps off	Add initial capitals throughout a section of text.
All caps	Uppercase the next word.
All caps on ... all caps off	Uppercase a section of text.
No caps	Lowercase the next word (one that would be autocapped).
No caps on ... no caps off	Lowercase a section that would otherwise be autocapped.
CONTROL LINES SPACES	
Spacebar	Prevent a hyphen in an autohyphenated word.
No space	Omit a space between the next two words.
No space on ... no space off	Prevent a section of text from having spaces between words.
NUMBERS	
Dot or point	.
Numeral	Represent as a numeral instead of as a spelled-out word.
BASIC SYMBOLS	
Asterisk	*
Percent sign	%
Ampersand	&
At sign	@
Degree sign	°
Pound sign	£
MORE SYMBOLS	
Greater-than sign	>
Less-than sign	<
Forward slash	/
Backslash	\

Say this...	To get this result...
BASIC PUNCTUATION	
New paragraph	A new paragraph
New line	A new line
Period or full stop	.
Question mark	?
Exclamation point	!
Colon	:
Semicolon	;
Comma	,
Apostrophe/single quote	'
Quote	"
Underscore	_
MORE PUNCTUATION	
Open parenthesis or open parens	(
Close parenthesis or close parens)
Open bracket	[
Close bracket]
Open brace	{
Close brace	}
Hyphen	-
Minus or minus sign	-
Dash or en dash	—
Em dash	—
Dot dot dot or ellipsis	...

DICTATION MACHINE

To use dictation on your iOS device, tap the microphone icon next to the virtual spacebar. To have Siri insert a punctuation mark, capitalisation or a symbol or other special character as you speak, use the corresponding word or phrase listed in the charts above.



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Northland

Northland Shopping Cnt.
Shop K025A 2-50 Murray
Road, Preston
Victoria, 3182

03 9470 1480

New South Wales

SupaCenta Moore Park

Shop GF25 SupaCenta
Moore Park, 2A Todman
Avenue, NSW
Moore Park, 2021

02 9662 0600

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CONNECT

SIX WAYS TO LIMIT MOBILE DATA USE

1. Monitor your data use. To see how much data you've used in the current period, go to *Settings > Cellular* and scroll down to Cellular Data Usage. To zero out the amount listed there, tap *Reset Statistics* at the bottom of the screen. To create a reminder in Calendar to perform this step regularly, find the billing cycle dates on your phone bill. Create a new event on the morning of the first day for each cycle, and set it to repeat monthly.

2. Monitor data use by individual apps. Go to *Settings > Cellular* and scroll through the app list. Under each program's name is a listing of the data it has used in this billing cycle. Scroll to the bottom to see how much your hotspot, messaging services and the like have used. You can also reset the numbers to zero with the Reset Statistics button.

3. Turn cellular data off entirely. If you don't want to keep track of how much of your monthly data plan you are using, you can turn off cellular data for all apps and services. Go to *Settings > Cellular* and slide the *Cellular Data* toggle off. This turns off data access only; you can still use your iPhone to make and receive calls and texts.

4. Turn data off for specific apps. To disable cellular data for particular apps, go to *Settings > Cellular*. But which apps should you consider turning off and which should you leave on?

Video apps (such as YouTube) and streaming music apps (such as Apple's Music app, Pandora and Spotify) are especially data-hungry and make good candidates for closing. Ones to leave on are favourite web, email and Twitter apps that you may want to be able to use when you're away from Wi-Fi.

5. Disable Background App Refresh for certain apps.

Apps like Mail need to be able to grab new data even if the program isn't running in the foreground. Other apps, like Facebook, may not require such an extravagance. To disable Background App Refresh on an app-by-app basis, go to *Settings > General > Background App Refresh*. From there, either turn off the feature altogether or disable apps individually.

6. Stop automatic app downloads.

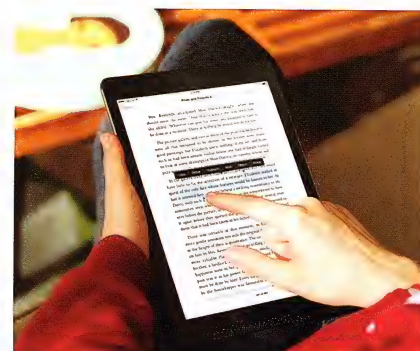
If you have enabled cellular data for the iTunes and App Store apps, you can get fine-grained control over what those apps can do with that data connection. Go to *Settings > iTunes & App Store*, and toggle *iTunes Match* on or off. Likewise, you can decide whether to enable automatic downloads for music, apps, books and software updates.

USE A VPN

A virtual private network encrypts internet data flowing to and from your iOS device, to combat eavesdropping on Wi-Fi networks. Providers such as Cloak (getcloak.com), PublicVPN (publicvpn.com) and WiTopia (witopia.net) offer paid VPN accounts.

iOS 7 provides built-in support for several common types of VPNs. To configure it with your account settings, go to *Settings > VPN > Add VPN Configuration*, fill in the details for your account and tap *Save*. To turn the VPN on or off, go to *Settings > VPN* and tap the on/off switch.

Some VPN providers offer their own apps that further simplify configuration and use. For instance, you can configure the Cloak app to activate your VPN automatically when you're on an untrusted network.



APPS

BOOKS

CREATE AND PRINT ANNOTATIONS

You can use your finger as if it were a marker to highlight new text or to expand an existing highlight. And you can print the notes you've made.

When you select text, a pop-up menu will appear; tap *Highlight* and select a colour. Or touch some text, and when the magnifier appears, start dragging; everything you touch will be highlighted in the current default colour. Expanding an existing highlight works in the same way: Touch, pause and drag. If you fail to pause, you'll flip the page instead of highlighting the text.

An AirPrint printer can print notes from your iPad; or you can email the notes to yourself and pick them up later on a computer that has printer access. The procedures are the same for both operations until the last step.

Tap the *Contents* button at the top of a page and tap *Notes* on the Contents screen. To show page numbers from the printed version of the book (if the book's file format permits that choice), tap at the bottom of the screen. Tap the *Share* icon at the top of the screen, and tap *Edit Notes* in the pop-over. Tap the notes you want to share or tap *Select All* at the top of the screen. Finally, tap *Share* and then tap *Mail* or *Print* in the pop-over.

MAIL

COPY OR BLIND-COPY

When sending email messages, you may want to carbon-copy (Cc) people other than the main recipient(s) and you may

want to blind-carbon-copy (Bcc) someone so that person will receive the message without the knowledge of the other recipient(s).

To send either type of copy, tap the **Compose** button in Mail and then tap the **Cc/Bcc**, **From line**, which expands to show individual Cc, Bcc and From fields. Tap the Cc or Bcc field, enter the address(es) of the recipient(s) you want to include there and then continue composing your message as usual.

If you have multiple email accounts – or multiple addresses for a single account – set up on your device, you can choose which one to send the current message from (and thus determine which address will receive any replies). To do this, tap your address in the From line and then tap a different address.

MOVE MAIL ELSEWHERE

When you receive email messages while on the go, you can file them into mailboxes to get them out of your inbox and organise them to your liking. To move the message you're currently viewing, tap the folder icon followed by a mailbox name. To move multiple messages out of the current message list, tap **Edit**, select the messages you want to move, tap **Move** and then tap a mailbox name.

To move messages between accounts, follow the procedure outlined above – but instead of tapping a mailbox at the end, tap **Accounts** and an account name, followed by a mailbox in that account.



Move mail. Before you can transfer mail from one mailbox to another, you must select the relevant message or messages.



Mail attachments. It's easy to instruct Mail where to position an attachment in your message.

ADD ATTACHMENTS

iOS 7 simplifies the process of adding attachments to outgoing messages in Mail for iOS. Compose a message as usual and tap the spot in the message where you want an attachment to go. In the pop-over control, tap **Insert Photo or Video** followed by the location (such as *Camera Roll*, *My Photo Stream* or a photo album), followed by the photo or video. Then tap **Use**. Repeat as desired.

Mail shows the message's total size in the 'Cc/Bcc, From' header area. When you tap **Send**, your iPhone or iPod touch will prompt you to shrink the photos first. On an iPad, tap **Image Size** and then **Small**, **Medium**, **Large** or **Actual Size** and **Send**.

Though this technique works only for photos and videos, you can email other file types from any app that has a Share button that lists Mail as an option.

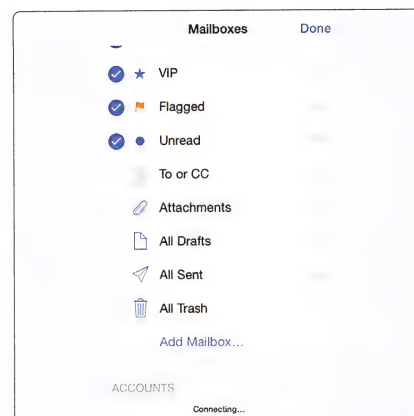
UNTRASH MESSAGES

When you accidentally delete or move a message you didn't mean to change at all, you can exit the account, enter the Trash and move the message back to your inbox – or you can give your iOS device a shake to make an Undo dialogue box pop up. Tap **Undo** to put your message back where it belongs.

EDIT MAILBOXES VIEW

Mail's top-level Mailboxes view – with All Inboxes, each account's individual inbox and a list of account names – is customisable in iOS 7. To add or remove items from it, tap the button in the upper-left corner of Mail's list view until you see the heading Mailboxes. Then tap **Edit** and tap items to select or deselect them.

New options in iOS 7 include Flagged, Unread, Attachments, All Sent and All Trash. Like smart mailboxes, these options display matching messages from multiple



View mailboxes. You can select the mailboxes that you'll subsequently see in Mail – and the order in which they'll appear there.

mailboxes and accounts. To add a mailbox that isn't in the list, tap **Add Mailbox** and navigate to the one you want to use. To rearrange items, drag them up or down, using the handle to the right of each item. Tap **Done** and only the selected items will appear in the top-level Mailboxes view.

ADD RICH-TEXT FORMAT

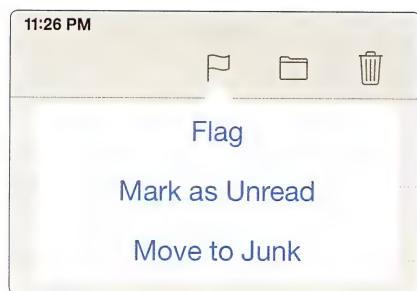
By default, Mail sends your messages in plain text. To add a bit of formatting as you compose a message, select any text and tap the **BIU** button in the pop-over, followed by **Bold**, **Italic** or **Underline** to apply that formatting to the selected text.

The Mail app in iOS 7 doesn't provide controls for font, size, colour, indentation, alignment, bulleted lists and the like, but it preserves such formatting in messages that you forward or reply to – so you can compose a styled message on your Mac, send it to yourself and keep it on hand in a mailbox on your iOS device.

To send someone a message that includes those styled elements, first forward that message, select all the text and tap **Quote Level** followed by **Decrease** to remove the quote bars. Then edit the text, subject and address to your taste and send it.

SEARCH ALL MAILBOXES

In iOS 6's Mail, you could only search the mailbox that you were currently viewing. In iOS 7, when you enter a search term, you can pull down the search results to reveal a toggle that lets you choose between searching only the current mailbox or searching all mailboxes.



ADD FLAGS

Mail in iOS 7 doesn't have the seven multicoloured flags of Mail in OS X, but you can flag any message to make it easier to find later. To flag the message you're viewing, tap the flag icon followed by *Flag*; to remove a flag, tap *Unflag*. (In the same control, you can tap *Mark as Read/Unread* or *Move to Junk*, as needed.)

You choose whether a flag in a message header or list will look like an orange dot or an orange flag icon. Go to *Settings > Mail, Contacts, Calendars > Flag Style*, and tap either *Color* (for a dot) or *Shape* (for a flag). Any item you flag in Mail for iOS appears with a (red) flag in Mail for OS X.

PHONE

BLOCK CALLERS

The Phone app in iOS 7 lets you block all calls from certain numbers or contacts.

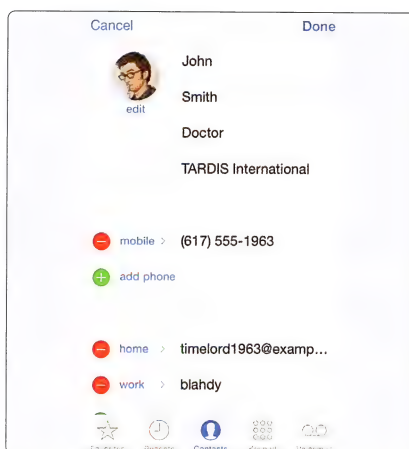
In the Recents pane of the Phone app, tap the *i* button next to a number. Scroll down to the entry 'Block this Caller'. (Or tap the *i* button next to a voicemail message in the Voicemail pane, or choose any contact stored in your device.) Tap *Block this Caller* and you'll get a warning that activating this option will block not only phone calls but also iMessages, text messages and FaceTime calls.

Alternatively, to block calls and messages from a contact, tap *Add New...* on the Blocked screen and select a contact.

To unblock a number, go to *Settings > Phone* and tap *Blocked* to see a list of all blocked numbers. Swipe right to left on any entry and tap the *Unblock* button to restore that number to good standing.

EDIT CONTACTS

To update your address books on your iOS device, first tap the *Contacts* button in the Phone app's toolbar and select the contact you want to update. Tap the *Edit* button



Edit contacts in phone. You don't have to open the Contacts app to edit contacts; you can do it directly from Phone instead.

in the upper right and tap any text field to alter the information in it. To remove an old phone number, email address, street address or other entry, tap the red minus (-) icon next to it and then tap the *Delete* button. To add an entry, tap the green plus (+) button next to it. When you're finished, tap the *Done* button in the upper-right corner.

Often you can assign a label to help differentiate multiple entries in a contact record. When entering a phone number, tap the label to the left to choose from among common options such as home, work, mobile and fax. You can also create custom labels by scrolling down and choosing *Add Custom Label*. Once you've created a custom label, it's available whenever you select a label.

If you can't see a specific field that matches the type of information you want to enter, it may be hidden. Scroll down toward the bottom of the contact record until you find the *Add Field* button. Tap that button to expose less commonly used fields such as phonetic names, nicknames and suffixes.

ADD FAVOURITES

For quick access to the people you call most often, add them to your favourites (tap the *Favorites* icon in the Phone app's toolbar to access this feature). You can make a call to anyone on that list simply by tapping the appropriate name.

To add a person to your favourites, tap the plus (+) button in the top-right corner of the Favorites screen and select or search

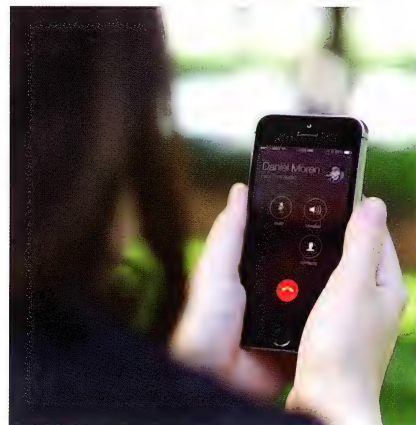
for the contact you want. If that contact's entry has only one phone number, the Phone app will ask you whether the favourite connection should be a standard voice call, a FaceTime Audio call or a video FaceTime call. If the contact's entry includes multiple numbers, you'll jump to the contact card; just tap the number that you want to assign to your favourites.

You can add favourites from anywhere you can view a contact card. Scroll to the bottom of the card, choose *Add to Favorites* and select the number and/or type of call that you want to add.

If you may need to reach someone in multiple ways – via both a mobile number and a work number, say – add each number to Favorites separately. Next to the person's name, the Phone app will put the label attached to that number or calling method. To rearrange the Favorites screen, tap the *Edit* button in the upper-left corner and drag entries to their new destinations; while you're in Edit mode, you can also remove entries from Favorites by tapping the red minus icon that appears to the left of each item and then tapping the *Delete* button that appears on the right.

FACETIME AUDIO

If you don't have a phone number for a contact, you may be able to call that person by using FaceTime Audio, which routes audio over the data portion of your mobile network (à la Skype) instead of over the phone portion. Such usage will come out of your data plan, rather than counting against your overall voice minutes.



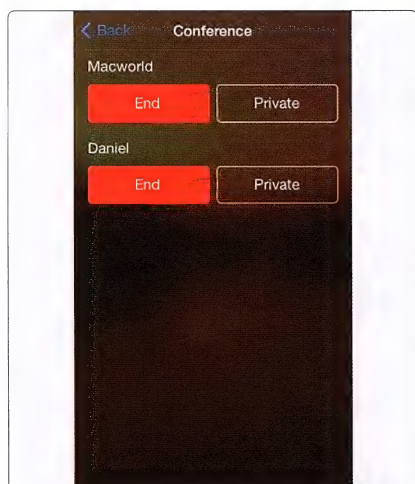
In the Contacts pane of the Phone app (or in the Contacts app itself), select a contact and tap the phone icon next to the FaceTime entry. During a FaceTime Audio call, just as during a normal phone call, you can tap *Mute* or *Speaker* and you can switch to a video call by tapping the *FaceTime* button. To access your Contacts list, tap the *Contacts* button.

MAKE CONFERENCE CALLS

An iPhone's conference call feature lets you speak by phone to multiple people simultaneously. To use this feature, start a phone call as usual. After connecting to your first participant, tap the *Add Call* button. The Phone app will put the first participant on hold and place a second call; when that call connects, tap *Merge* to bring both participants on the line. You can add up to five parties to a call.

To merge incoming calls, tap the *Hold Call and Answer* button when a new call comes in and then tap *Merge* call. To break off into a private conversation with one party during a conference call, tap the *i* button next to the name of the call and then tap the *Private* button next to a specific call. Tap *Merge calls* to return to the conference.

If you want to drop a single party from the call, tap the *Conference* button and tap the *End* button next to that call.



Out of conference. Tap the 'Private' button to enter into a private conversation during a conference call.

AUTOMATE CALL CODES

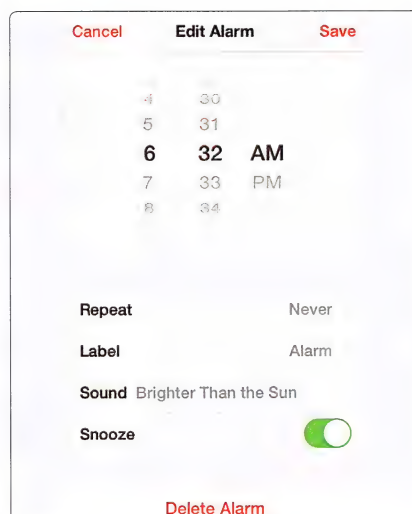
In many instances, joining a conference call entails dialling hard-to-remember extensions or conference room codes. To simplify the process, go to the Keypad section of the Phone app and enter the phone number you dial. When you get to the end of the regular number, tap and hold the hashtag key until it turns into a semicolon. Enter the passcode or extension and add the whole shebang to a new or existing contact record.

The next time you dial that contact or number, you'll see a small button in the bottom left that reads *Dial with the code you entered*; tap that to have Phone enter the code on the keypad automatically.

CLOCK

MAKE THE CLOCK APP WAKE YOU WITH A SONG

To set up a musical reveille in the Clock app, tap the *Alarm* button, tap the add (+) button and set the time. Then tap *Sound*, tap *Pick a Song* and choose a song in your list. The song will begin playing, so you can confirm that it's the one you want; tap it again to stop it. (The Sound list holds up to five songs, for easy selection.) Next, tap *Back* and then *Save*. To assign music to an existing alarm, tap *Edit* on the main Alarm screen, tap an alarm and pick up with the instructions earlier in this paragraph, starting at "tap *Sound*".



PHOTOS

SAVE BURST MODE IMAGES

The iPhone 5s's Burst Mode can help you capture fast-moving action, but you don't want to clog your device's storage space with duplicate images. So after capturing a series of photos in Burst Mode by pressing and holding down the shutter button for a few seconds, tap *Camera Roll* to view your images.

Your burst will appear as a single photo in the album, represented by the image that iOS 7 deems to be the best photo of the bunch. To go back and look through the full burst collection, tap the *Favorites* button; tap the photo (or photos) you'd like to showcase and tap *Done*. From there you can keep the entire burst for future perusal or delete the images you chose not to select.

USE PERMANENT FILTERS

If you like having a specific filter on the images you capture via iPhone or iPad, you can set Square or Photo mode to launch by default with the image manipulation of your choice already in place.

To set the filter, just tap the *Filter* button in the Camera app while in the mode you want. Switch to another mode and you'll once again have a clean slate; but when you return to your original mode, your filter of choice will remain in place.



ENABLE AUTOMATIC HDR

iOS 4.1 introduced the High Dynamic Range (HDR) feature, which let users take a photo of a subject with both sharp light and deep shadow and have it render as evenly lit. But HDR images took longer than non-HDR images to shoot and users had to turn it on manually when they wanted to use it.

With iOS 7 and the iPhone 5s, you can turn on automatic HDR mode. In normal light, your iPhone shoots a regular photo. In settings with multiple light patterns, however, your device can automatically recognise that an HDR photo might be better. If it does, it tries to capture that shot instead. (In these cases the iPhone takes two photos: an untouched one and an HDR version. Go to *Settings > Photos & Camera > Keep Normal Photo* to save both images to your Camera Roll.)

SHARE A PHOTO STREAM

Shared Photo Streams, which debuted with iOS 6, permitted users to share groups of images with friends for liking and comments, but those friends could not add images or video of their own.

iOS 7 lets you open a Shared Photo Stream to anyone you choose. When you create a shared stream, you'll see two tabs: Photos and People. Tap the *People* section to access your stream's settings and to toggle the *Subscribers Can Post* option on or off. (You can also choose to create a public website, add or delete friends to your stream and show notifications for the stream.)

SAFARI

SET THE FAVOURITES SCREEN

Safari in iOS 7 has a Favorites screen with the URLs and folders in the Favorites category of your Bookmarks list.

The Favorites screen appears when you don't have any open pages or tabs, when you tap the plus (+) button to add a new tab on an iPad, or when you tap the *Pages* icon followed by the plus button on an iPhone or iPod touch. To add a site to your Favorites screen, go to that site, tap the *Share* button and then tap *Bookmark*.

Make sure that *Favorites* is selected next to Location and tap *Save*. To edit, move or rearrange favourites, tap the *Bookmarks* icon in the toolbar followed by the *Bookmarks* tab, tap *Favorites* and then tap *Edit*. After making changes, tap *Done*.

ENTER PRIVATE MODE

As you browse the web, Safari keeps track of the sites you visit, the searches you perform and the contents of some forms you fill in. Private mode lets you hide your browsing history from anyone who has access to your iOS device. It also temporarily prevents Safari from storing cookies (which likewise provide evidence as to the sites you've visited).

To enable Private mode on an iPhone or iPod touch, tap the *Pages* button at the bottom of the screen; to do so on an iPad, tap the plus (+) button to add a new tab. Then tap *Private* at the bottom of the screen. If any nonprivate pages are already open, Safari asks if you want to close them first. While in Private mode, Safari takes on a grey background.

To turn off Private mode, follow the same steps you used to turn it on. Note that Private mode doesn't prevent websites from collecting data about you, including your IP address (which can reveal your physical location).

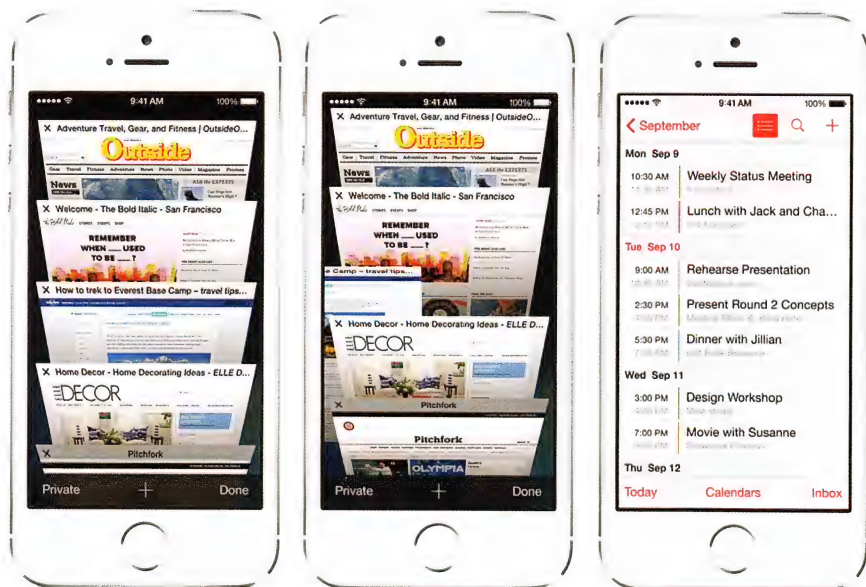
USE TABS

On an iPad, Safari for iOS 7 lets you open multiple tabs at the same time, in much the same way as Safari in OS X does. To create a new tab, tap the plus (+) button. You can switch to a different tab by tapping it, and you can drag tabs to rearrange them. On an iPhone or iPod touch, you can have multiple pages open at once, but they won't appear as tabs; to switch to a different page, tap the *Pages* button in the lower-right corner.

If you use Safari on multiple Macs that run OS X 10.9 Mavericks or later, or on iOS 7 devices, and you are signed in to iCloud on each device with the Safari category enabled, you can see which tabs (or pages) the other devices have open. On an iPad, tap the cloud icon in the toolbar; on an iPhone or iPod touch, tap the *Pages* button in the lower-right corner and swipe upward to show the open tabs and pages on other devices.

OPEN BACKGROUND LINKS

To open a new webpage on an iPad without leaving the one you're on, touch and hold the link until a pop-over control appears; then tap *Open in New Tab*. The new page or tab will open in the background without affecting the current page or view. On an iPhone or iPod touch, the analogous command is 'Open in New Page' – but



MACWORLD LEAD MANAGEMENT

CONTENT STRATEGY



LEAD NURTURING



MARKETING AUTOMATION



SALES QUALIFIED LEADS \$\$\$\$

tapping it jumps you to the new page. However, Alexander Clauss's \$2.49 iCab Mobile (www.icab.de/mobile.html) or the free Google Chrome (g.co/ChromeApp) on an iPhone or iPod touch offers the open-in-background feature.

VIEW PASSWORDS AND CREDIT CARD INFO

If you configure Safari to save entered passwords and credit card information (by going to *Settings* > *Safari* > *Passwords & AutoFill* and confirming that 'Names and Passwords' and 'Credit Cards' are turned on), Safari will record your credentials as you browse. (If you use iCloud Keychain to sync this information across devices, anything you store in Safari on one device will be available on your other devices as well.)

Usually you'll want to let Safari fill in this information automatically. But if you need to view stored passwords and credit card details, return to *Settings* > *Safari* > *Passwords & AutoFill* and tap either *Saved Passwords* or *Saved Credit Cards*. Tap an item and enter your passcode if prompted to do so and Safari will display the details. You can edit your credit card details by tapping the *Edit* button.

However, though an *Edit* button appears in the Passwords list (enabling

you to delete entries), you can't edit individual passwords in the *Settings* app. (You can edit them in the Keychain Access utility on a Mac, if you use iCloud Keychain to sync them.)

REMINDERS

CREATE A LOCATION-BASED REMINDER

In the Reminders app, tap the information (i) button next to an item, slide the switch for *Remind Me at a Location* and tap the *Location* field. On the following screen you can search for an address or select a prefilled location option.

Your selected location will appear on a small map, beneath a set of buttons for specifying whether to send the reminder when you arrive at the location or when you leave it. Drag the handle on the perimeter of the circle around your location to indicate how near you should be when the reminder goes off. Return to the Details screen and tap *Done*. The location will appear in small text below the reminder item. 📍

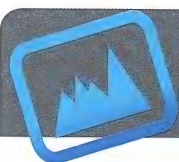
Contributors to this article include Serenity Caldwell, Joe Kissell, Kirk McElhearn, Dan Moren and Sharon Zardetto.



Accounts - multi-company & currency, parent child, multi address, integrated google maps, CRM - **Payroll** - payrun, superannuation, superannuation adjustment, next of kin, company, department, class, multi-award, RDO, cost splitting by department, multiple bank accounts, leave loading, allowances, child support, leave loading, rebates, salary packaging, commission structures, salary sacrifice, workers compensations, unlimited super funds per employee, annual leave, long service leave, carer & personal leave, future leave, accumulators, employee log file, Statement of Leave, payrun log, service, loan, reversals, capital allowance schedule - **Job Projects** - resources, activities, time sheets, allocations, job project invoices, job project credit memos, details, cost, analysis, job project financials, planning and quoting, billing, GL budget, resource & project gantt charts, tracking notes - **Inventory** - manufacturing, bill of materials (BOM) , size/colour style matrix, unlimited barcodes per product, formula pricing, hire, lay by, multi-shop, batch and serial number tracking, inward goods, arrivals & deliveries, resources, price-book, multiple locations, multi-department, open to buy forecasting integrated emailing, document management, integrated soft phone. Sales reps, quotes, orders, invoices, requisitions, purchase orders and purchases, delivery run maintenance, dashboards, show reports, stocktake entry, transfer entry, build entry, unit demand, manifest, manager, asset purchase - **Management** - statement of position, months activities, cash & account movements, tax calculation, auditing tools, FX currency settings - **Assets** - passwords, password management, location management, tax and company depreciation, serial number tracking, warrantee storage, insurance details, barcode, company and tax valuation, computer equipment details, disposal, purchase, revaluation, repair, service, loan, reversals, capital allowance schedule - **Utilities** - User access inquiry, system controls, master defaults, remote access defaults, co inquiry, department inquiry, task inquiry, organisation chart, work flow rules inquiry change menus and names, server administration, web server - **Workbook** - CRM, contact management, documents, tracking notes - **System wide** - document management, CRM, processor spreadsheet, wysiwyg report writers, SQL database, web pack, query editor

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APP GUIDE

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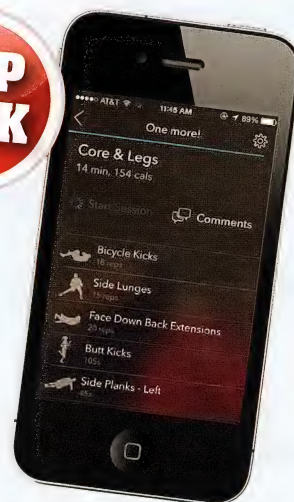


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FitStar

iPHONE & iPAD FREE (in-app purchases)

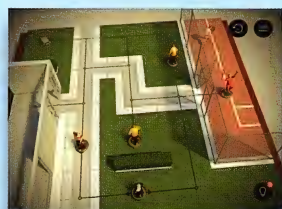
Like many other fitness apps, FitStar aims to help you improve your personal fitness and stamina with not much more than your own body weight. It uses a mix of squats, planks, bridges, twists, leg-lifts and yoga moves to get you stronger and faster in your daily life. Not only is FitStar beautifully-designed – a criterion many workout apps tend to gloss over – but its programs are designed with your own personal tolerances in mind. When you start up the app, it runs you through a basic fitness test and has you rate each task; from there, you get assigned badges for your prowess in certain areas. The app then incorporates that data into creating your workout plans, varying the time and difficulty of your exercises based on your initial feedback.



HITMAN GO

GAMES
Square Enix

iPHONE & iPAD \$6.49



There's a lot about *Hitman Go* to adore, from the bold choice of genre to the elegant, restrained presentation. But the puzzles themselves are a touch too dry to really grab the average player. It's disappointing, given our initial surprise and pleasure at its aesthetic choices, that *Hitman Go* turns out to be a solid puzzle game, rather than a great one.



CINEMATE ENTERTAINMENT

Andrew Plummer

iPHONE & iPAD FREE



Australian developer Andrew Plummer's Cinemate app is a simple, easy to use solution for movie-seeking iOS users. After getting your location, the app searches for the closest cinemas to you and lists the movies playing. The home screen layout is sleek, offering the day's session times and reviewer ratings. The app also uses details from movie site, Rotten Tomatoes, showing both the critics' and the audience ratings.



ANOTHER CASE SOLVED

GAMES
Chillingo

iPHONE & iPAD FREE (in-app purchases)



Another Case Solved is a tile-matching puzzle game. To earn your detective chops, you must solve cases by playing a series of mini-games. The game

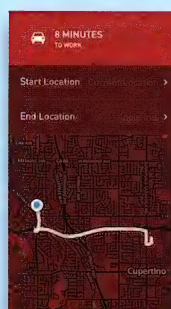
is easy to pick up but offers lots of replayability. It's exactly what you're looking for in a mobile game: easy to pick up, complex enough to keep you on your toes and stocked with hours of gameplay.



MORNING PRODUCTIVITY

Tamper

iPHONE & iPAD \$4.99



Morning, a nifty utility for iOS, consolidates all of your regular morning tasks into one app. The app consists of different panels of must-know info: the date and time, your reminders, the weather forecast, a newsreader, your calendar, your daily stock info, your current commute time and an event countdown. It keeps your day beautifully organised in one glanceable screen that should simplify your morning routine.



iPARKED
UTILITIES
Bean's Bytes
iPHONE FREE



The free iParked app is a handy app to have, because it does all the work for you. Just open the app once after you've downloaded it – after that, iParked can sense when you've stopped driving and it marks that spot (iPhone 5s only – other devices must be manually marked). When you start walking back to your car, let it guide you back to your vehicle.



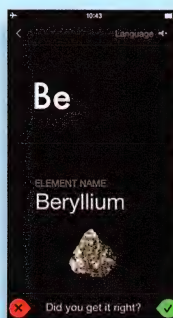
PURECONNECT
UTILITIES
Daniele Orlando
iPHONE \$1.29



The \$1.29 PureConnect app for iPhone is both gesture- and face-based. Instead of a list of names, the app can show you a grid of your contacts' faces. You can choose what the gestures mean: a swipe or a double-tap can instruct your phone to text, email or phone your friends.



THE ELEMENTS FLASHCARDS
REFERENCE
Touch Press
iPHONE & iPAD FREE



We are suckers for science and for beautifully designed apps. The Elements Flashcards, a free app for iPhone and iPad, hits both our sweet spots. You can try to identify chemical elements by their symbol alone, test your knowledge of groups in the periodic table or drag and drop elements into their correct position on the periodic table.



POCKET EXPENSE 5
FINANCE
Appxy
iPHONE \$6.49

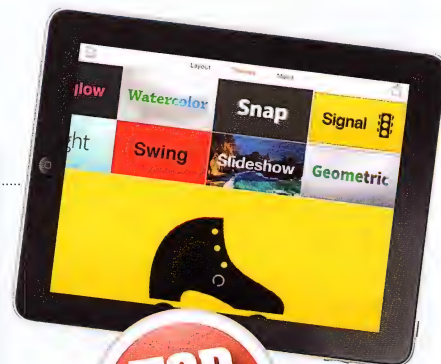


Pocket Expense 5 for iPhone is a \$6.49 expense tracker, but it might be worth it. It lets you manage your accounts, compare budgets to actual expenses and track your bills so you're never late with a payment. And it's password-protected, so your valuable financial information doesn't end up being everybody else's business.



ADOBE VOICE
PRODUCTIVITY
Adobe
iPAD FREE

What's your story? That's the question the Adobe Voice app for the iPad is clamouring to help you answer. The app combines the boring task of making slideshows with a fun, iMovie Trailers-esque feel; it's one of the company's most beautiful iPad apps to date, and it's incredibly easy to use. For the inexperienced presentation-maker, Voice is a godsend. It's simple to learn, hard to mess up, and fills a gap that Apple's Keynote and Microsoft's PowerPoint probably didn't even realise they were leaving. Even more experienced users may enjoy this program for quick-hit pieces – after all, sometimes it's in the limitations, not the features, where you can find true beauty. Voice is free, though it does require a Creative Cloud account to publish your videos.



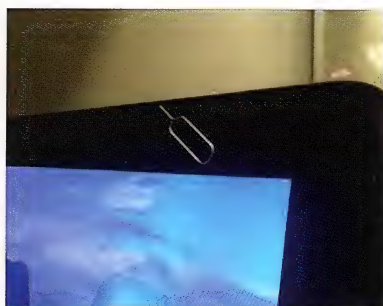
TOP PICK

STM READER TIP

MAGNETIC SIMs

I have a neat tip that may be of interest to readers, especially those with an iPhone who regularly switch SIM cards. As it turns out the SIM eject tool (at least the recent Liquidmetal ones) are susceptible to magnetic fields. There's a very handy one on most recent Apple displays in the top right-hand corner...

Gavin Maxwell



EACH MONTH, STM gives a prize to the *Macworld Australia* reader who submits the best and most useful tip (undocumented tips preferred). This month's prize is a comfortable and portable STM drifter laptop backpack worth \$169.95.

This drifter pack is easy to wear, features pockets in all the right places and comfortable to boot. A hint of retro design yet space for all the daily tech needs. There's room for work docs, gym gear, lunch, umbrella and waterbottles.

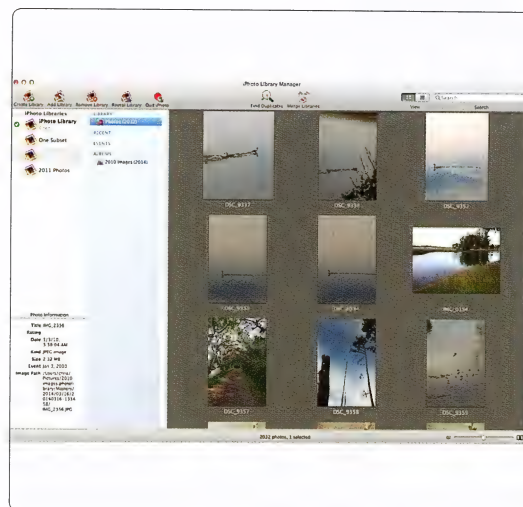
Features:

- Top load main compartment reveals a padded laptop cell (will hold most 14-16in laptops),
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- Slip tablet pocket with cord and battery storage,
- Side water bottle pockets with compression straps,
- Padded shoulder straps with stabilising sternum strap,
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- Integrated luggage pass through secures the bag to the handle of your wheeled luggage

www.stmbags.com.au



YOU CAN ASK THE **MACWORLD AUSTRALIA** TEAM ANY MAC- OR APPLE-RELATED QUESTIONS BY EMAILING EDITOR@MACWORLD.COM.AU. ANSWERS THIS MONTH BY CHRISTOPHER BREEN AND DAN MILLER.



? SPEED UP A SLUGGISH IPHOTO LIBRARY

I am a casual photographer who has amassed about 10,000 pictures in my iPhoto library. iPhoto now runs so slowly that it is essentially unusable. I just want to organise photos by date and event, and do very light editing. What do you recommend that's faster?

Marty Schettler

The higher-priced spread will be overkill – Apple's Aperture and Adobe's Lightroom and Photoshop offer more features and complexity than you need. Even Photoshop Elements 12 may demand a longer leap than you wish to make.

Although you could look at some less expensive and less complicated options such as the \$22 Lync (www.lyncapp.com) or the \$31.99 Pixa (www.pixa-app.com), or even the free but kind of clumsy and ugly Picasa (picasa.google.com), we suggest that you stay largely where you are – running iPhoto but with the help of Fat Cat Software's US\$29.95 iPhoto Library Manager (www.fatcatsoftware.com).

Smaller and faster. Manage smaller image libraries with the iPhoto Library Manager utility.

We suggest this approach because you seem to be familiar with iPhoto and, we presume, you've organised your photos in a way that pleases you. Why start over with another application? Where iPhoto fails is in its lack of responsiveness. With iPhoto Library Manager you can continue to run iPhoto, but you can use it to create multiple smaller libraries, which takes care of the speed issue.

Think about how you'd like to split up your library. For example, you might wish to gang together images by their years, by the camera you used or by face or location. Once you've made that decision, launch iPhoto and choose *File > New Smart Album*. In the sheet that appears, configure the conditions to match your organisational strategy. For instance, your set *Date is in the range 1/1/2010 to 12/31/2010* to gather images created in 2010. Assign a name to your smart album and click *OK* to create it.

Now launch iPhoto Library Manager and click the *Create Library* button in the top-left corner. Give the album a descriptive name – *2010 Photos*, for example – and click *Create*.

Select the *iPhoto Library* entry (this item reflects your current iPhoto library plus all the events, albums, projects and slideshows it contains) and then locate the smart album you

created. Drag this album to the album you made in iPhoto Library Manager. It will then copy those images to a new album (this procedure can take a long time and tie up your Mac if you're moving a lot of images). Repeat the process if you want to create additional libraries (see 'Smaller and faster' on opposite page).

If you simply want to browse your images, you can do that directly within iPhoto Library Manager. Launch the app and select an album. The images it holds will appear as thumbnails to the right.

When you want to work with one of these libraries in iPhoto, you have two options. The first is to launch iPhoto Library Manager and double-click the library you want to view; it will open in iPhoto. The second is to hold the Option key while launching iPhoto. Do so and you'll be prompted to choose a library.

? SHARE PRESENTATIONS IN MESSAGES

I'm giving a presentation to a remote group soon and, as in the past, I was going to use Messages to do that. Now, in Mavericks, it doesn't seem to work. What am I doing wrong?

Keith White

TIP: ENCRYPT PDFs FROM PREVIEW (AGAIN)

Previously you could encrypt a PDF file from within Preview by way of the standard *Save* dialogue box. In recent versions of Preview, however, that *Save* option no longer produces a dialogue box. (It just saves the file.)

You still have a way to encrypt PDFs by saving, however. To find it, first hold the Option key as you open the File menu. The menu's *Duplicate* option changes to *Save As*; click that, and you'll get the same opportunity to select the *Encrypt* checkbox. When you do so, you'll be prompted to add a password for the PDF file. (Alternatively, you can select *Duplicate* and then choose *Save* on the resulting copy of the file; in this case the *Save* dialogue box will offer the *Encrypt* checkbox.)



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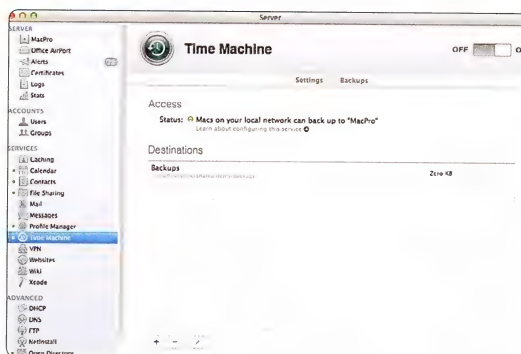
The glib answer is “You’re running Mavericks.” The less glib answer is that Messages’ iChat Theater feature is gone in the Mavericks version.

For the “Wait, what?” crowd, allow me to explain. In iChat and later in Messages prior to Mavericks, you could share a Keynote presentation by having a copy of Keynote on your Mac, engaging in a video chat (both parties had to be on the same service, namely AIM, Bonjour or Jabber, but not iCloud), and then dragging a Keynote file into the bottom half of the video-chat window. The presentation would then appear on the other person’s Mac, with a small video window of the presenter. Under Mavericks, in contrast, if you attempt to do this you get only an option to send the file to the other person.

My hope is that Apple hasn’t got around to reinstating this feature, but intends to do so, as we’ve found it useful when conducting remote presentations.

What are your alternatives? If you like doing this kind of thing through Messages, then we’d suggest that you install a copy of Mountain Lion and Keynote on another drive connected to your Mac. Boot from that drive and use Messages as you once did. The person on the other end doesn’t have to be running Mountain Lion; even if they’re using Mavericks, they’ll still see your shared presentation.

If you’re not committed to Messages, take a look at Zoom (zoom.us), an online meeting service that’s free for up to 25 participants. (Group meetings are limited to 40 minutes, but one-to-one meetings can run for an unlimited amount of time.) Zoom lets you share a specific window on your screen (which would be your open Keynote window) and it displays your video image as you talk. You must register a free account and allow Zoom to install an app, after which you invite people to your meeting. When they click the meeting’s link, their default web browser will launch and then they



Serving your backup needs. OS X Server provides an inexpensive network-backup feature.

too must download and run the Zoom app (though they’re not required to have an account).

? GET BODACIOUS BACKUP FOR ONLY 25 BUCKS

I have a Mac in my home office that I’d like to configure so that it can back itself up via Time Machine, but also back up two other computers on my local network. I know that I could use Apple’s Time Capsule, but I already have spare hard drives that I could devote to the job. Any suggestions?

Gene Thomas

I have a \$24.95 solution I think you’ll like a lot – OS X Server. Whoa, hang on, I know that hearing those words causes some people to duck and cover. But I’m not tossing you headlong into the geek goulash. I’ll have you in and out in a jiffy.

You’ll find OS X Server for Mavericks on the Mac App Store. Once you’ve downloaded it, attach a backup drive to the Mac that’s going to run Server. Use Disk Utility to format

the drive as a Mac OS X Extended (Journaled) volume.

Now launch Server, select the *Time Machine* service on the left side of the Server window, and flip its switch to *On*. Click the plus (+) button at the bottom and then click the nearby *Choose* button. Navigate to your backup drive; this will be where your networked volumes store their backups. Click *Create* and that volume will appear as a backup destination (see “Serving your backup needs”).

Move to each Mac on your network that you want to back up and click the *Time Machine* preference within System Preferences. Click *Select* and you’ll spy the drive you just configured for Server backup. Select it as a destination for each of your networked Macs; Time Machine will start backing them up to the drive.

The Mac that’s running Server has to stay on while other Macs are backing up to it – otherwise Time Machine on the networked Macs won’t find the backup destination. It’s best to run Server on a Mac that uses minimal power – a Mac mini, say, rather than an old Mac Pro.

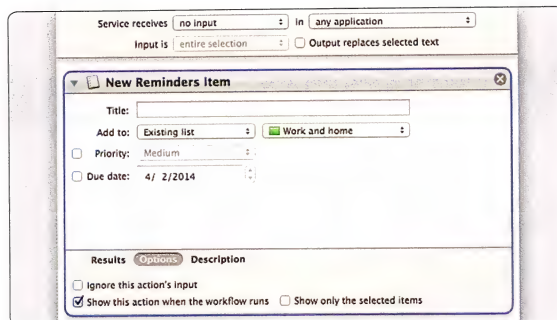
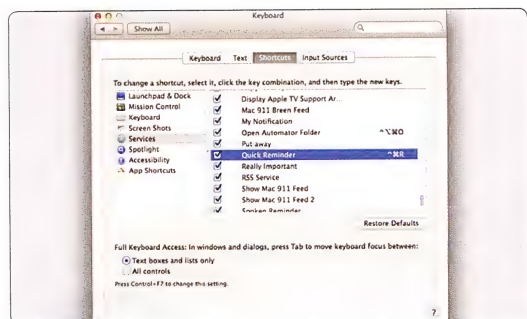
? CREATE A REMINDER ON YOUR MAC IN AN INSTANT

I’m accustomed to creating quick reminders on my iPhone by using Siri. Obviously Siri isn’t available on my Mac, but is there an easy

TIP: QUICKLY RETYPE PREVIOUS TEXT IN MESSAGES

If you’ve ever used the bash shell in Terminal, you may know that you can quickly retype old commands by pressing the up arrow key and scrolling through the command buffer. Interestingly, Messages has a similar functionality: press Option-Up Arrow, and you can scroll through a history of the things you typed in a given conversation.





way to quickly create a reminder without having to launch the Reminders app?

Robin Lee

Launch Automator, and in the workflow template, choose *Service*. At the top of the workflow, configure the pop-up menus to read *Service receives no input in any application*. Select the *Calendar* library in the leftmost pane, and from the *Actions* pane to the right drag the *New*

left:
Trigger.
Add a handy keyboard shortcut to trigger your workflow.

right:
Overview.
The single-action workflow.

Reminders Item into the workflow area. Click *Options* in the action and enable *Show this action when the workflow runs*. Save and name your workflow – *Quick Reminder* has a nice ring to it.

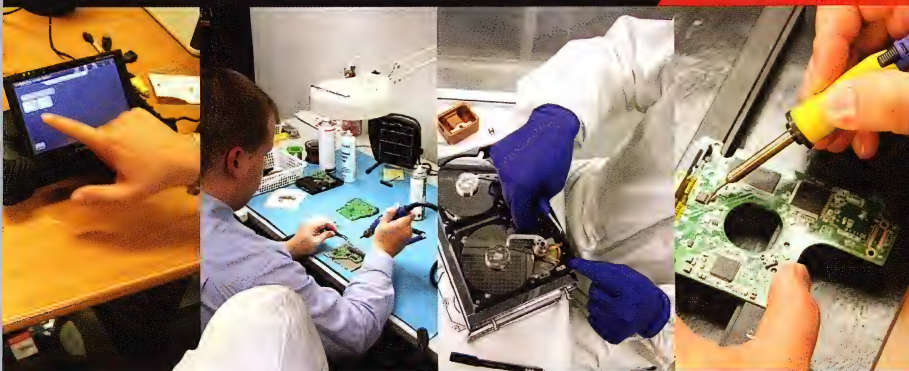
Launch System Preferences, select *Keyboard*, click the *Shortcuts* tab and choose *Services* in the pane on the left. Locate your *Quick Reminder* entry near the bottom of the services list, click to the right of its name and enter a keyboard shortcut; I've used ⌘ -Control-R.

Now when you want to create a new reminder without opening the app of nearly the same name, press that shortcut.

You'll get a *New Reminders Item* window that contains 'Title', 'Add to', 'Priority' and 'Due date' entries. Fill it out in a way that makes sense to you (if you've enabled the 'Due date' option, you can add an alarm) and click *Continue*. The reminder will be added to the Reminders app.

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Wireless headphones

Looking for cordless audio? You are at the right place. ANTHONY CARUANA has reviewed four options for you.

Beats by Dr. Dre Wireless

There's no doubt that Beats by Dr. Dre has become one of the world's most identifiable products.

But the Beats Wireless headphones aren't only about looks – they deliver excellent, albeit pricey, quality.

Headphone fit can be a very subjective thing. We found the Beats Wireless to be quite a tight fit and there's very little padding on the top section. As a result, we found them to be quite uncomfortable once we had them on for an hour or so, even though we did play with the adjustment quite a bit.

As expected, charging was over USB, with battery life rated at 10 hours – enough for a day in the office or some travel.

Sound quality was very good. The bass didn't exhibit the really strong levels we've found in other Beats products we've reviewed previously, so we felt the Beats Wireless delivered a truer sound than other headphones from the same manufacturer.

Controls for playback were all found on the right earcup. This did take a little getting used to. Each of the controls was marked on the earcup with either a raised bar or series of dots – like a simplified version of Braille. Once we'd learned the patterns and positions, we were able to adjust the volume, skip forward and back through tracks, and play and pause tracks.

Holding down the play/pause region on the cup invoked Siri and we could also make and receive calls though the headphones. Disappointingly, audio quality on phone calls was on a par with the rest of the field in this Group Test with the other party noting it was hard to hear when we were talking.

Bottom line. It's hard to tell why Beats sell so well. Is it the look? The sound quality? Or does the brand have that much street cred? We found that it's a combination of the three.



Bose AE2w

Bose has long set the benchmark in portable sound. The AE2w maintains that tradition.



When we put the AE2w headphones on for the first time, we were instantly struck by how light they were and how comfortable they felt. Without feeling bulky, they have enough padding in the right spots. As a result, we were able to wear them comfortably for several hours.

Charging the AE2w was straightforward using USB. We charged our test set with an iPhone charger, although you could also use a computer. Battery life is claimed at about seven hours, although that can vary depending on the distance between the phone or iPad and the headset, volume levels and other variables.

Sound quality was outstanding with no distortion. We were able to bump the volume right up on several tracks we had purchased and everything sounded crisp and clear.

Unlike all the other headphones we tested, Bose has chosen to not place the controls on the cups. Instead, they have a small block that protrudes from the right side. This holds the power switch, Bluetooth radio and other controls.

Most of the controls were easy to use. However, the multifunction button was a little unintuitive in our opinion. A single press acted as a play/pause control. But pressing it twice skipped forward a track while three presses skipped back. Until we looked for this in the manual, we didn't think the AE2w had a track-skipping option.

The AE2w could also be used for making and receiving calls. While calls sounded fine at our end, parties on the other end complained that sounds were a little muted. The multifunction button could be used to invoke Siri to make calls hands-free.

Bottom line. Although the Bose AE2w headphones aren't cheap, the comfort and sound quality are very high value.



\$380 / BEATS BY DR. DRE
au.beatsbydre.com

PROS Sound quality **CONS** Tight fit



\$300 / BOSE
www.bose.com.au

PROS Comfortable **CONS** Unintuitive controls



OUTSTANDING



VERY GOOD



GOOD



FLAWED



UNACCEPTABLE

59

JULY 2014
www.macworld.com.au

Sony MDR-10RBT

Once we'd set the MDR-10RBTs up – the pairing process was very easy – we were able to listen to our tunes. In addition to the Bluetooth connectivity we tested, Sony has added NFC (near field communication) connectivity to the MDR-10RBT headphones. This makes the connection process easier and makes us wonder why Apple hasn't jumped on board with this emerging technology.

The headset was reasonably comfortable, although we felt that it could use a little more padding across the top. The padding around the ears was comfortable and did a solid job of blocking out ambient sound.

As is the norm in this product category, charging was over USB. A single charge, according to Sony, will deliver 17 hours of continuous use – enough for a long-haul flight.

Of the four sets of headphones we tested, the Sony MDR-10RBT had the easiest controls to use. Rather than trying to fit too many functions into a small number of buttons, Sony has chosen to give this headset separate play/pause, forward/back and volume controls. Although this adds to the number of buttons, it means that we didn't have to learn any complex combinations to execute common actions.

Sound quality was excellent in our view. Unlike many of the headsets we've recently tested, Sony has eschewed the trend of adding extra bass to the sound. As a result, we felt that the MDR-10RBT headphones had the most balanced sound. There wasn't too much deep bass overpowering the rest of the sound. We couldn't detect any distortion at high volumes.

Like the other headsets we tested, we were disappointed with sound quality on phone calls. While everything was fine at our end, the parties we spoke to noticed that sound quality was muffled and hard to hear.

Bottom line. Sony, arguably, created the idea of high-quality portable headphones when it launched the Walkman back in the late 70s. Its MDR-10RBT wireless headphones hit the spot for portable entertainment buffs.



Kogan Pro Urban DJ Studio Bluetooth 2.1 Headphones

Once we got over some initial frustration, we were pleasantly surprised by Kogan's wireless headphones. There's no documentation in the box, as Kogan prefers to provide all product manuals online. Ostensibly, this is an environmental stance, although we wonder how much of it is to help keep product pricing low.

The pairing process for these headphones wasn't exactly as described in the manual, but we did get them going after a little bit of fiddling about.

The Pro Urban DJ Studio Headphones are quite light and fitted well, although we'd have preferred a little more padding on the top section. After about 20 minutes, we could feel the weight on the top of our head. Padding around the ears was adequate and helped block out external noise.

Sound quality was very good. There are controls for play/pause, skipping back and forward through tracks and adjusting the volume. Our only complaint was that there was some distortion at higher volumes that we didn't notice with the other headphones we tested.

Charging is handled over USB – as it was for all the headsets in this Group Test. That's probably not a big deal for most people, although it could be annoying if you're a traveller and planning to use the Pro Urban DJ Studio Headphones on a plane where charging options are limited. On the other hand, adding batteries is likely to increase the weight.

We used the Pro Urban DJ Studio Headphones to make and receive calls. The power button also acts as a call/hang-up button. Sound quality at our end was fine, but the parties we called noted that the sound was muffled and that there was a noticeable background hum. As a result, they found it hard to hear what we were saying unless we spoke slowly.

Bottom line.

Kogan's Pro Urban DJ Studio Bluetooth 2.1 Headphones will fit the bill for those looking for expensive-looking wireless headphones on a budget. 

**\$300 / SONY**

www.sony.com.au

PROS Sound quality **CONS** Lack of padding**\$49 / KOGAN**

www.kogan.com/au

PROS Light; inexpensive **CONS** Uncomfortable; no documentation



Fetch TV

A personal video recorder for the gadget age, Fetch TV lets you stream free-to-air television and pay TV to your iGadgets – with a few catches.

Fetch TV doesn't sell direct to the public; instead it's available through a handful of internet service providers: iiNet, Internode, Optus, Westnet, Adam Internet and TransACT. You can buy the Fetch TV box outright or rent it, but either way you'll also pay a few dollars per month in subscription fees.

In return for your money, you get a PVR with online access to the hand-curated Fetch TV Electronic Program Guide, which is more reliable than the EPG details embedded in the broadcast signal. You can create Season Passes to automatically record your favourite shows each week, with the recorder actually checking the schedule for changes rather than blindly recording the same timeslot.

The Fetch TV box features twin high-definition tuners, letting you record two channels at once – including the IPTV subscription channels – while watching a third. As for internet features, you can hire new release movies and watch Catch-Up TV from the ABC and SBS.

On top of this, you can pay extra for entertainment and sports pay TV packages, which are cheaper than Foxtel, but offer fewer channels

in return. Fetch TV recommends broadband speeds of 3.5 Mbps to support standard-definition channels, or 7.5 Mbps for high-definition.

If that's not enough entertainment, the Fetch TV box also features a DLNA client with broad format support, letting you stream video from your computer or Network Attached Storage drive.

As a free-to-air PVR, Fetch TV's only major shortcoming is the inability to skip through the ads in 30-second increments. You can still fast-forward the ads and a future firmware update will add an auto-jumpback of several seconds when you press play, to allow for slow reflexes.


At this point, Fetch TV is already head and shoulders above much of the competition. The icing on the cake is a collection of slick iPhone, iPad and Android apps, which help you make the most of your PVR.

For starters, you can use the Fetch TV app as a remote control, letting you change the channel, adjust the volume, flick through the program guide and schedule recordings even when you're away from home. The ability to mute or pause the television from the next room is likely to appeal to parents.

More than this, you can stream free-to-air digital TV recordings – but not live broadcasts – to your handheld gadget, making it easy to watch your favourite shows while lounging on the couch, lying in bed or sitting anywhere else within reach of your home Wi-Fi network. Alternatively, you can stream the live pay TV channels, over Wi-Fi or mobile broadband, but you can't stream pay TV recordings from the box.

The inability to stream some content is a frustrating schism inflicted by Australian copyright law and rights deals. Unfortunately, Optus customers are denied the ability to even stream recordings of live television, thanks to the ISP's legal stoush with Telstra and the AFL over streaming live football. Competing PVR makers like Humax and Strong offer live streaming features, although the results are hit and miss.

Fetch TV enforces a limit of three registered devices for streaming pay TV content, and you can watch on two devices at once. This limit doesn't apply to streaming recorded television and the Fetch TV box happily supports three simultaneous streams, without interrupting anyone watching the television.

Bottom line. The streaming restrictions are frustrating and the pay TV packages are limited compared to Foxtel, but the Fetch TV box still has a lot to offer – assuming it's available from your ISP. If you're looking for an easy way to stream recordings around your home, Fetch TV should be on your shortlist. 

– ADAM TURNER



FETCH TV

www.fetchtv.com.au

PROS iOS app; recording streaming

CONS No live FTA streaming; limited pay TV channels

\$299 or \$10 per month, plus subscription fees



Canon EOS 1200D

A camera with top-of-the-line features and value a-plenty.

Canon's 18-megapixel APS-C format sensor incorporating EOS 1200D is an imaginative update of its 12-megapixel 1100D predecessor. The obvious pitch is that first-time DSLR owners will be able to achieve more professional results straight out of the box, and with more pixels to do it with, via a camera that's less bulky than many of its peers.

Pricing is very fair at \$499.95 for just the camera body without the lens. Aside from portability, ease of use and affordability, the other central pitch for this model is its low light performance, with its core light sensitivity range of ISO100-6400 expandable to ISO12800.

We were shooting a lot at ISO800 and ISO1600 to avoid deploying the usefully included pop-up flash, and the images we got back were crystal clear and grain free. Take the EOS 1200D in your hands with a lens attached and there is little about this digital SLR that feels immediately budget. In fact to us it felt just right: not too heavy, not too throwaway – and light enough to move around freely and unrestricted.

Yes, we don't get a tilting LCD screen – the adequate 3in, 460K dot resolution is resolutely fixed – but we do get the benefit of an eye level optical viewfinder and nine-point AF for focusing the mind and the eye on what is going on in front of the lens rather than around us – invaluable in the potentially distracting scenario of, say, a music festival, or a crowded tourist destination.

As with most cameras these days, there is an element of interactivity provided with mobile devices. In the case of the EOS 1200D, this comes via an EOS Companion app – a free download via iTunes – that was launched in tandem with the DSLR, enabling relatively novice photographers to learn tips and tricks. The app provides a range of expert tutorials and step-by-step exercises to take us through the basics, as well as offering picture ideas with coaching on the likes of speed and perspective in the 'Inspire' section. There's also a troubleshooting guide.

Naturally Full HD movie capability is also provided for capturing the family frolicking on the beach this summer. Providing compatibility with over 70 Canon EF lenses out of the box; in particular the likes of Canon's EF 50mm f/1.8 II, EF-S 10-22mm f/3.5-4.5 USM, or EF-S 55-250mm f/4-5.6 IS STM lens are all possible additional purchases to supplement the camera body.

Bottom line. While the 18-megapixel EOS 1200D may not offer all the bells and whistles of models higher up the range, such as a tilting and swivelling LCD screen, it is possible to get professional looking results out of it if you stray from the 'auto everything' settings and start to tweak shutter speed and ISO.

As such this is a very affordable route to getting sharper, more obviously 'pro' looking pictures from the get-go and from a relatively lightweight body.

OK, so 3fps continuous shooting is modest by today's standards and the kind of spec being offered by entry level DSLRs a decade ago, but then sports photographers will be looking elsewhere anyway.

In most other respects, however, the performance of the 1200D transcends what we'd expect from a camera purely aimed at beginners. Even so-called experts shouldn't be ashamed to stuff this compact DSLR into their kit bag. 📷

– GAVIN STOKER



CANON

www.canon.com.au

PROS Affordable; well built; capable of professional looking results for a budget price; intuitive operation

CONS Fixed LCD screen only; no built-in wireless connectivity; maximum capture speed is modest if you're attempting action shots

\$499.95 (BODY ONLY)

Netgear Trek

Whether you're at home or on the road, Netgear's Trek travel router could be the missing piece of your networking puzzle.



Similar to Apple's AirPort Express, the Netgear Trek N300 travel router can act as a range extender on your home Wi-Fi network. You can plug the Trek into any power point, make a wireless link back to your main base station, and then relay the Wi-Fi signal to those hard-to-reach corners of your home.

When the Trek is connected to your wireless network, you can use its two built-in Ethernet ports to connect internet-enabled gear to your home network – using the Trek as a wireless bridge. For example, if your Smart TV features an Ethernet port but not built-in Wi-Fi, then you could connect your Smart TV to the internet by connecting it to the Trek via an Ethernet cable, and then linking the Trek to your Wi-Fi network.

Alternatively, you can run an Ethernet cable from your broadband modem to the Trek's 10/100-megabit internet/LAN port, and then use the Trek to generate a Wi-Fi network. While you're doing this, you can still connect nearby devices to the second Ethernet port. The inclusion of two Ethernet ports, similar to the new generation of AirPort Expresses, offers an extra level of flexibility compared to many third-party Wi-Fi range extenders.

A small power switch on the top lets you configure the Trek for wired or

wireless access to your existing home network. You can also swivel the back of the Trek to point upwards, exposing the LED activity lights while also extending the antenna to offer better coverage.

The Trek is easy to set up. When you first power it up, you can connect to it via Wi-Fi or Ethernet to configure it via a web browser. In Wi-Fi mode it scans for nearby networks and gives you the option of extending one, while in Ethernet mode you can create a Wi-Fi network. The Trek remembers your settings as profiles, so you don't need to go through this set-up procedure every time.


The Trek is certainly a handy way to deal with Wi-Fi black spots around your home, although it's worth noting that it doesn't support 5GHz networks. If you're running a 5GHz 802.11n network around your home, perhaps to avoid interference on the 2.4GHz band, then you'll be better served by one of Netgear's other Wi-Fi extenders or perhaps Apple's AirPort Express.

Don't dismiss the Trek too quickly though because, as the name suggests, it has a few extra features to offer when you slip it in your travel bag and take it on the road. It's designed to be the central hub of a mobile office, extending hotel Wi-Fi/Ethernet connections or any other networks at your disposal. It even has a built-in

firewall to help keep you safe if you're connecting to a public network.

For extra flexibility, the Trek can even run off the power from your computer's USB port via a built-in micro-USB port, but there's no built-in battery. You'll also find a full-sized USB port for charging your mobile devices via the Trek, cutting down on the need for an extra power point to charge your smartphone or tablet.

Alternatively, you can attach USB storage and access it from the various devices connected to your network via Samba, FTP or HTTP. You can also hook up a USB printer.

Bottom line. These days most Mac users would prefer 5GHz Wi-Fi support around their home. The Netgear Trek is more attractive for people on the road, although if you travel light you may find it overkill. Road warriors looking to set up a mobile office on the go will find it the most useful. 

– ADAM TURNER



\$69 / NETGEAR

www.netgear.com.au

PROS Wi-Fi and dual-Ethernet support

CONS No 5GHz support

24/7
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reviews,
secrets,
help &
more!



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AOC Q2770PQU 27in LED monitor

The Q2770PQU is a new addition to AOC's line of professional monitors, a 27in panel with an iMac-like 2560 x 1440 pixel resolution. It takes a Super PLS panel, Samsung's IPS-style technology, to promise crisp and vivid images.

A substantial stand swivels on its circular base, allowing tilt back and forth, and also allows the panel to rotate into a vertical portrait orientation. The monitor itself looks a little square, with a thick, brushed-metal effect plastic frame and asymmetrically thicker bezel running along the bottom.

Legends for the four menu buttons are raised plastic, making them nearly impossible to read. The buttons hidden under the edge are large and well spaced, while the on-screen menu system is reasonably logical, a semi-transparent overlay that seemingly rises from the screen bottom.

Overall build quality was satisfactory if a little plasticky, with no discernible light leak from the edges. Thanks to the white LED backlight it doesn't consume much power either. At 50 percent brightness, it drew around 24W, rising to 36W at full brightness.

It has one each of analogue VGA input, DVI-D, DisplayPort and HDMI. Additionally there are two USB 2.0 and two USB 3.0 ports, to add a powered hub to your desktop.

The two USB 2.0 are hard to reach, facing down with the rest of the inputs but useful for a wired keyboard and mouse. The USB 3.0 ports are on the right side, one confusingly coloured yellow rather than blue. This may be designed for charging although it was unable to power our iPad.

For basic sound effects there's a single speaker that's audible through the rear ventilation holes. Needless to say and in common with most PC monitors it didn't sound good.

While the AOC doesn't deliver any thrills in its style it makes up the slack in the pure quality of the display image.


Its measured sRGB gamut was right on the money with 100 percent coverage. For the wider AdobeRGB gamut it still recorded a respectable 80 percent. Setup for a Gamma of 2.2 it was found to be very accurate, following the curve through the brightness up to 100 percent with essentially no variation.

Brightness level was more than you'd need in even a bright office, at 300 cd/m². Contrast ratio in a chequerboard test, from 50 percent to full brightness, was a consistent 580:1. An overall average Delta E figure of just 0.90 was a great result.

Colour uniformity across the screen was reasonably good, with only the top right corner exceeding a Delta E figure of 3.0 at 100 percent brightness, while at a more usable 50 percent brightness this dropped to a Delta E of 3.2.

Luminance uniformity was below professional colour grading levels but quite usable. At full brightness the left and right middle parts of the screen were 14 percent and 15 percent darker. At 50 percent brightness they were around the same, at 16 percent darker on the left and 14 percent darker on the right. But these are not terrible results and will barely be visible by eye.

Judged subjectively, the panel's image quality was exceptional. In the OS X interface, fonts were rendered very cleanly with no visible artefacts. Just avoid the Clear Vision option – confusingly found by pressing the panel '–' button – which tries to oversharpen and ruin the image.

Bottom line. For a large high-resolution IPS screen at a premium price of around \$600 you'd expect decent build quality and full sRGB coverage. You get that, and a consistent image with impressive colour accuracy. 

– DUNCAN EVANS

Andrew Harrison contributed to this review.



\$649 / AOC

www.aocmonitorap.com

PROS High 2560 x 1440 resolution; superb image quality; telescopic rotating stand; low power consumption

CONS Bland styling with asymmetric bezel



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DANIELLE BASKIN
Founder, Belle Helmets

WHAT DO YOU DO?

I specialise in designing hand-painted helmets for cyclists in hopes of making safety more fashionable (bellehelmets.com). I'm also a freelance art director.

WHAT HARDWARE DO YOU USE?

My computer, a 21.5in iMac, lives in my studio. Its portable companion, the iPhone 5s, lives a busy life in an OtterBox. Both devices communicate with my HP LaserJet Pro 200, which excels at both mundane and elaborate tasks.

I've had a Wacom Graphire 2 tablet since eighth grade; and I still use it for drawing in Photoshop, but I prefer to draw on paper. My sketchbooks are just sheets of loose printer paper arranged in folders. That way, they're easier to photograph: I can lay them flat, sort them easily and view them together as a collection.

AND WHAT SOFTWARE?

I use the CS6 versions of Photoshop, Illustrator and InDesign for illustration and graphic work. Even when I create something by hand, I usually finalise it in the Adobe suite.

My browser of choice is Chrome. I organise my internet findings on Evernote.

I read blogs and comics through Feedspot, which is like the new Google Reader. Artsy is a good tool for discovering artists. Google Cultural Institute is an incredible site for magnified artwork.

I process words in Google Docs or Bean, play games in Steam, download fonts from Dafont, run my company website through Shopify, create promotions with Scroll Kit, code some things in Sublime Text 2, look at how JavaScript works in JSFiddle, send marketing campaigns via MailChimp and send emails at 8:17am with Boomerang.

I use Instagram, Frametastic, Twitter and Tumblr, mostly for my company. When I sell helmets in the street, I accept payments with Square. I listen to podcasts and audiobooks on Audible while painting. I communicate through Gmail. And I remember things, draft things and make lists – lots of 'em – with Notes.

WHAT IS YOUR DREAM SETUP?

Visualisation tools! I'm thinking of a device for projecting sharp images (or solid colours) onto irregular or nonflat objects at short distances. It would facilitate painting on objects by showing a template to trace images or text. It would also let me show people prototypes for aesthetic variations on objects without actually creating them. 🖨️

Interview courtesy of The Setup (usethis.com; Twitter: @usethis). Photograph by Karsten Moran.

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